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JUNE 2006 ■ A Restore Media Publication ■ VOLUME 19/NUMBER 3 ■ $6.00

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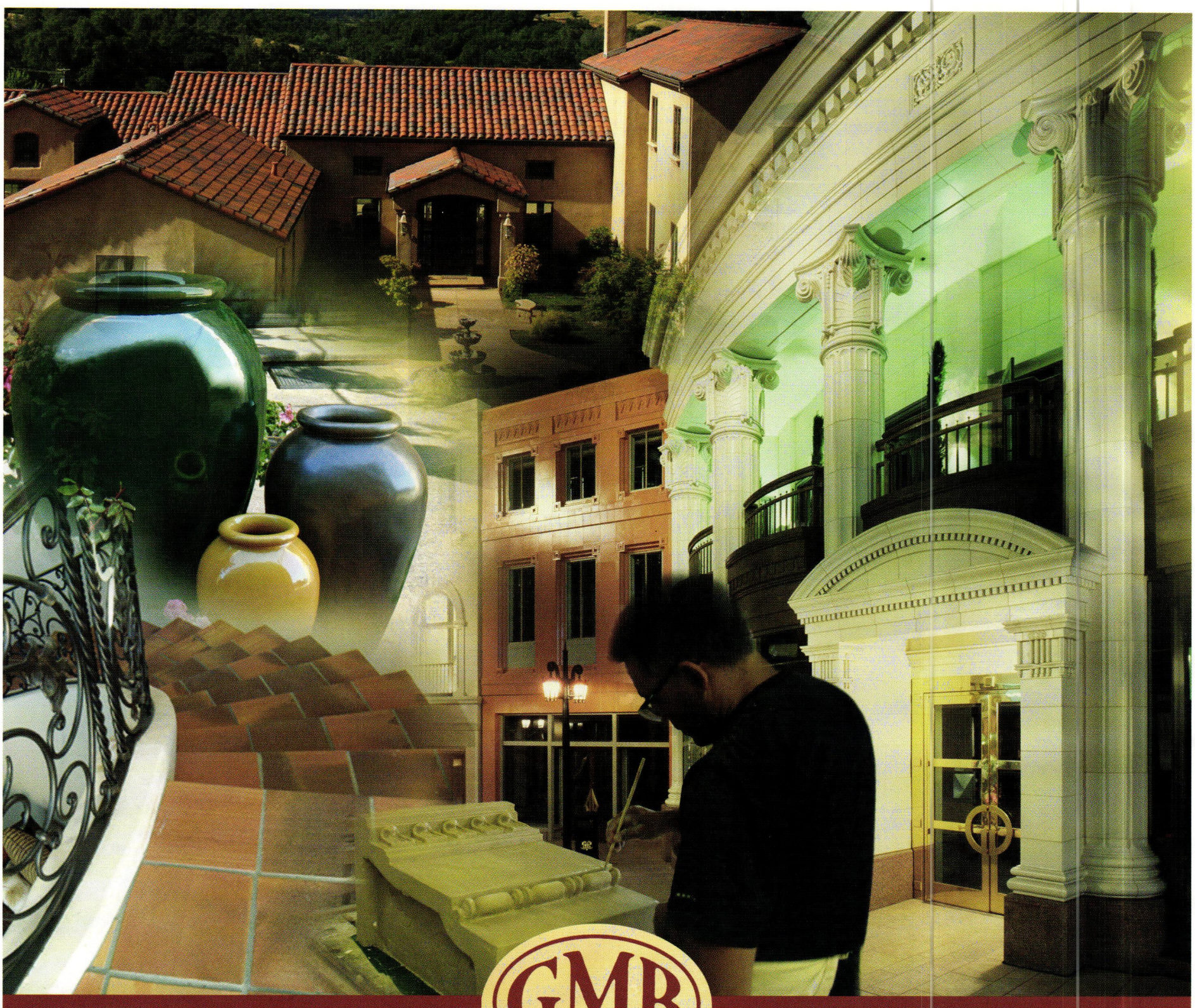

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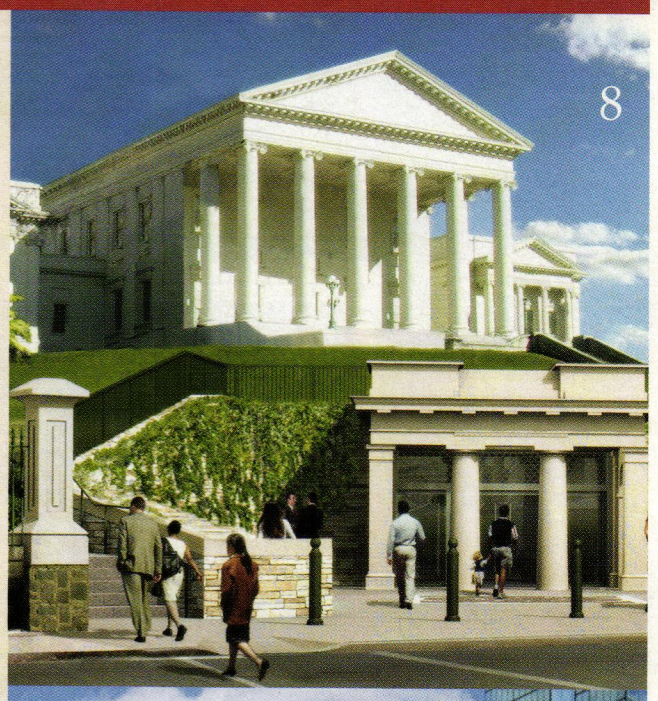

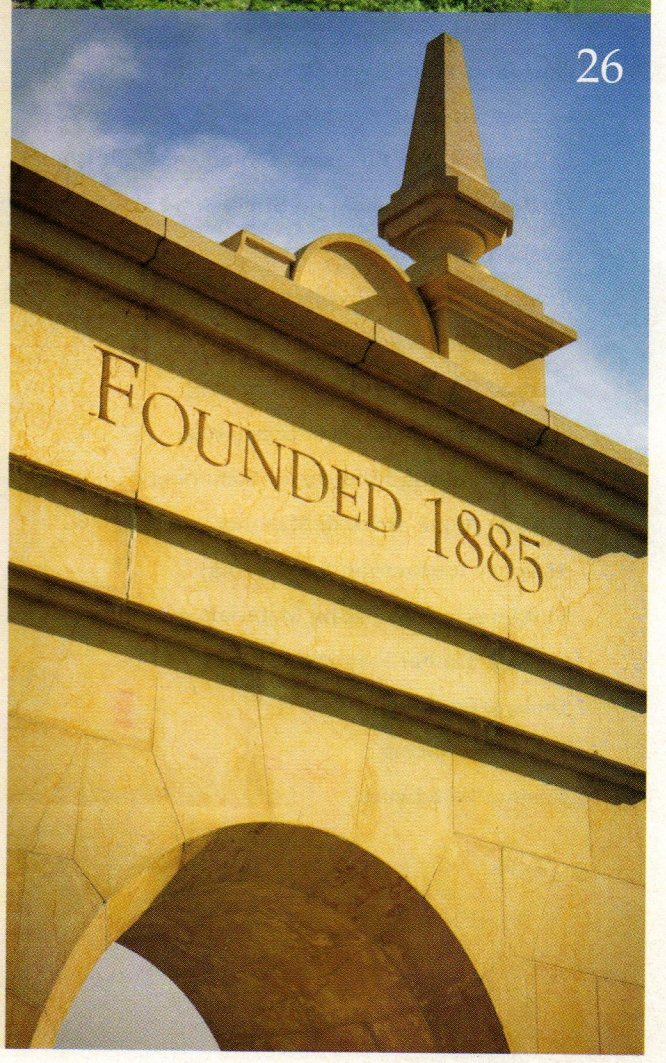

On the cover: Einhorn Yaffee Prescott's rehabilitation of the Washington State Legislative Building in Olympia, WA, included the restoration of its central dome, which reaches a height of 287 ft. See page 19. *Photo: Peter Aaron/Esto*

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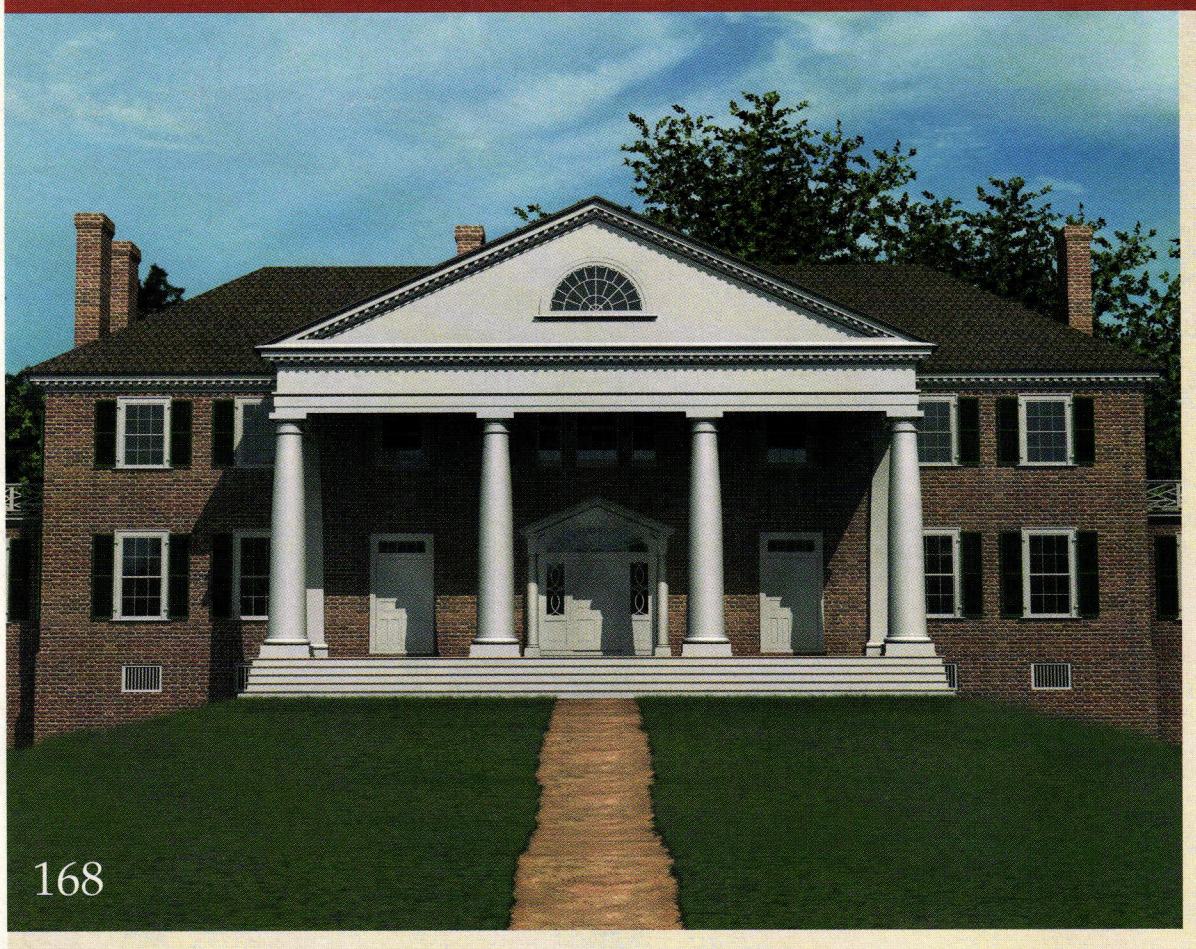

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TRADITIONAL BUILDING (ISSN # 0898-0284)
is published bi-monthly by Restore Media, LLC,
69A Seventh Avenue, Brooklyn, NY 11217.
Subscription rate to professionals in architecture,
interior design, construction and landscape design
in the U.S. and possessions: $21.95/yr. (6 issues).
Not available outside the U.S. Postal System.

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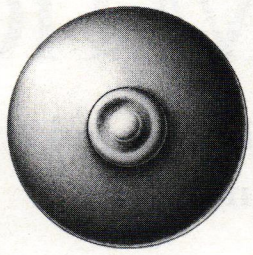

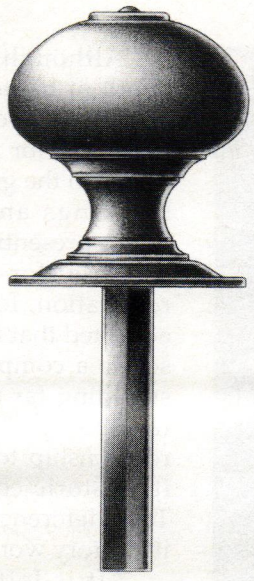

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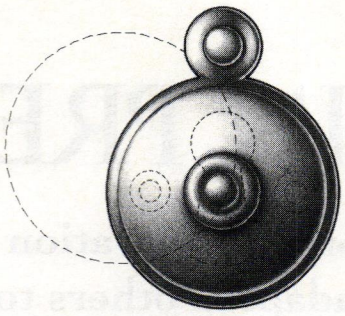

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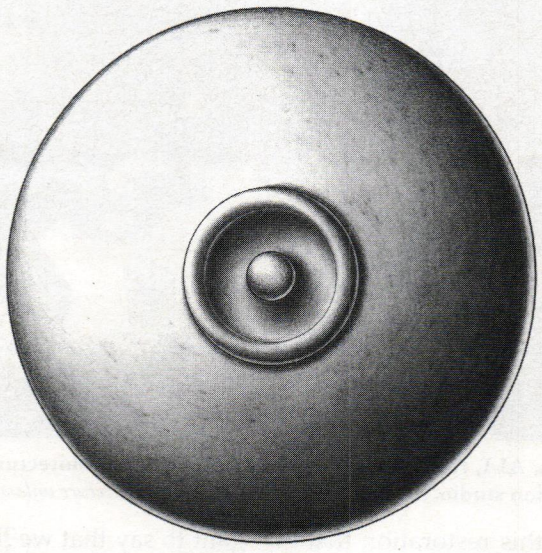

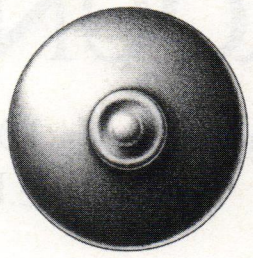

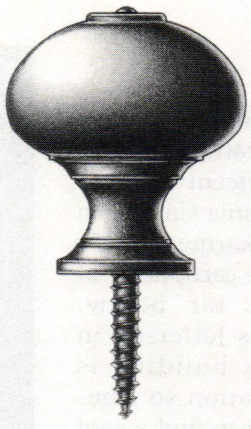

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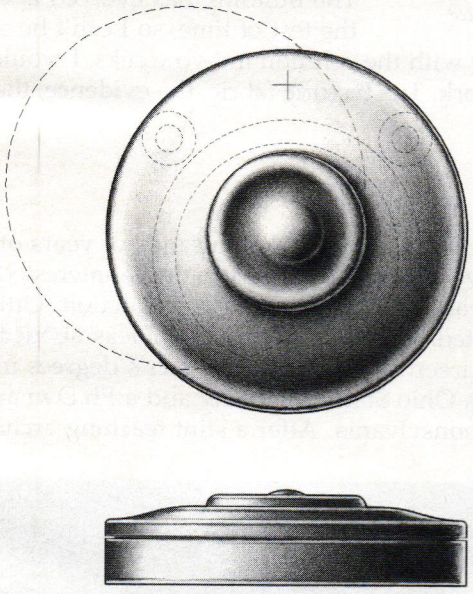

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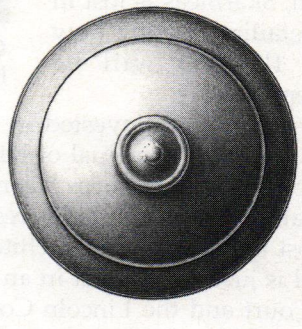

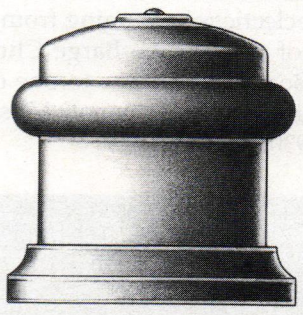

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GROUNDED IN PRESERVATION

Hillier Architecture's 10-year-old historic preservation studio has restored a broad range of iconic buildings and adapted others to creative new uses.

By Kim A. O'Connell

After climbing up several levels of scaffolding into the magnificent rotunda of the Virginia Capitol in Richmond, George Skarmeas, AIA, seems oblivious to the cacophony of construction noise far below. Designed by Thomas Jefferson in 1785, the landmark building is undergoing a restoration so complete that it is difficult to find a spot not covered in scaffolding or drop cloths. Workers fill every corner, cleaning, repairing, and replacing elements – pounding, sawing and shouting as they go. Up in the rotunda, however, with the ceiling close enough to touch, Skarmeas is lost in the exquisite detailing, noting how each painted flourish will be painstakingly reproduced.

George Skarmeas, AIA, the founding principal of Hillier Architecture's 10-year-old historic preservation studio. *All photos: courtesy of Hillier Architecture unless otherwise noted*

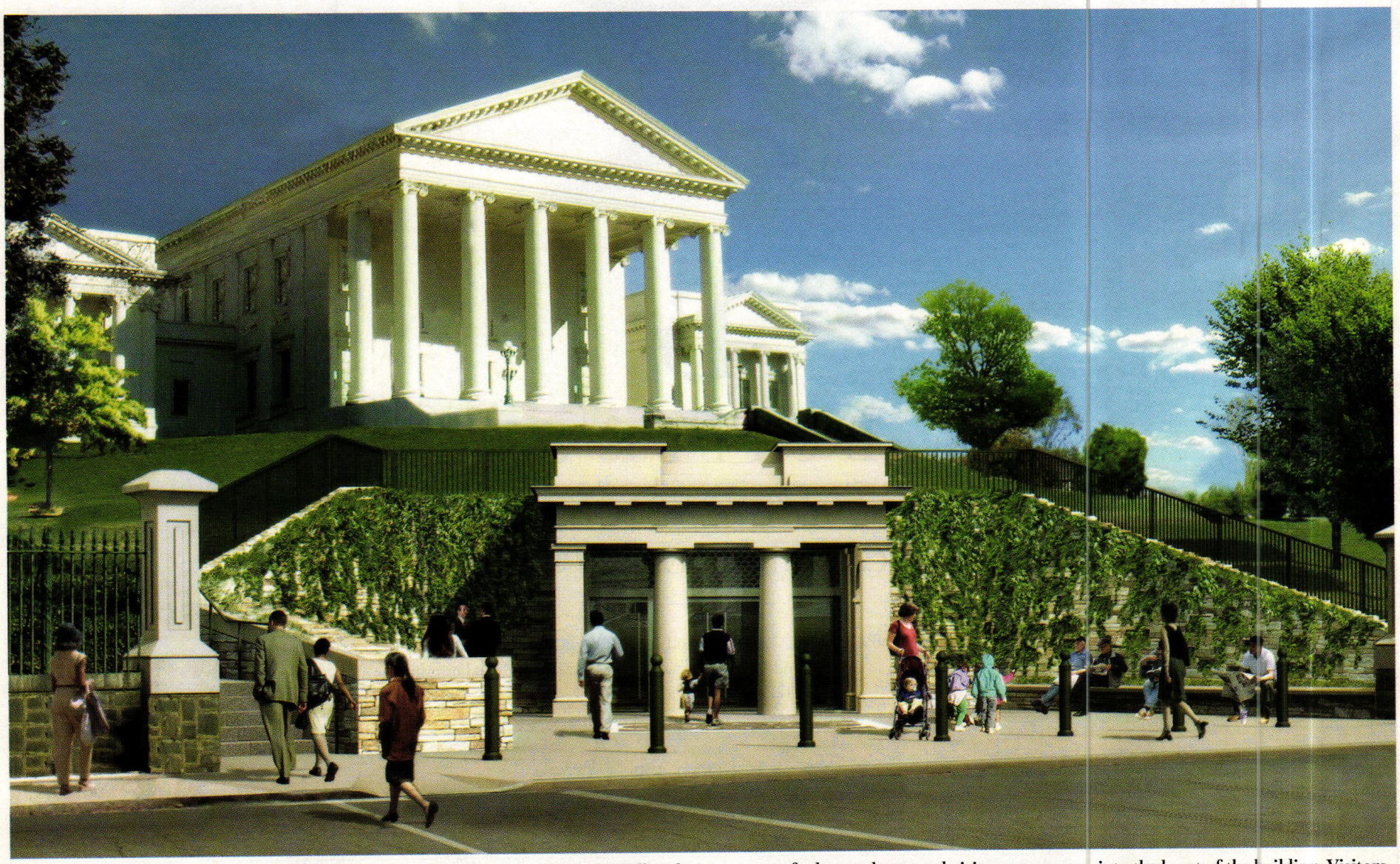
Skarmeas may be more invested in the success of this restoration than anyone. As the founding principal of Hillier Architecture's 10-year-old historic preservation studio, Skarmeas has made it his personal mission to pursue the most challenging and complex restoration projects, usually involving the nation's most historically and architecturally significant structures. The Virginia Capitol is just one project in an impressive roster that includes the U.S. Supreme Court and the Lincoln Cottage in Washington, DC, the New Jersey State House Annex in Trenton, and the St. Louis Public Library. Other projects are an eclectic mix, ranging from one of the studio's earliest efforts – the restoration of the Undine Barge Club, a Frank Furness masterwork on Philadelphia's Boathouse Row – to one of its most recent, the development of a master plan for the Cincinnati Museum Center, an Art Deco building known for its 1930s murals.

Although Skarmeas extols the depth of his team's credentials and acknowledges his own exacting standards for restoration, he always defers to the guidance offered by the buildings and sites themselves. When presenting the firm's winning proposal for the Virginia Capitol restoration, for example, Skarmeas admitted that they could not yet prescribe a complete solution without spending far more time investigating the bones of the structure, its relationship to site topography, and its historic connection to the city. That deference to the building and its history won Hillier the job.

"It is Jefferson's capitol, not George's," Skarmeas says. "We were clear that we didn't have preconceived notions about the restoration. The building has evolved and stood the test of time, so I can't be so arrogant to say that we'll come up with the solution in two weeks. I would want Jefferson to approve of our work. The historic fabric, the evidence, the truth, the authenticity are timeless."

A Practice Emerges

In his native Greece, Skarmeas was exposed to thousands of years of building tradition, but like many young architects he was more interested in the future, and that primarily meant new design and construction. Only after Skarmeas traveled to the United States did his nascent ideas about historic preservation coalesce into a career. Skarmeas has master's degrees in architecture and city planning from Ohio State University and a Ph.D in architecture from the University of Pennsylvania. After a stint teaching architecture



To preserve the classic "temple on the hill" appearance of the Virginia Capitol, the Hillier design team crafted an underground visitor passageway into the heart of the building. Visitors begin their journey at an entranceway that draws on the Classical vocabulary, but inside, the exhibit space is streamlined and contemporary.

After traversing the Virginia Capitol's entrance passageway, visitors arrive in a Modern "rotunda" that acts as a counterpoint to Jefferson's classically designed rotunda within, whose elaborate interior decorations are being painstakingly cleaned and reproduced where necessary.

at Ball State University, Skarmeas began working on large-scale historic buildings with the Vitetta Group. When Hillier came calling in 1996, Skarmeas had a finely honed sense of what a preservation practice should be.

"I was interested in the way people deal with environments, the process that enables you to understand the important dimensions and subtle things that people see or don't see in the built environment," Skarmeas says. "As a society, we don't often have long-term values; we tend to consider certain aspects of the built environment disposable."

Skarmeas views preservation as a pyramid, ranging from widespread adaptive reuse projects at the bottom to the most exacting, demanding conservation work, like that at the Virginia Capitol, at the top. "We want to avoid doing 'commodity work,' bottom-line-driven conversions," he says. "The higher you go on the pyramid the more challenging and complex it becomes, and your design freedom is limited. At the same time, there is not a single architectural expression. You can do a glass box or a Classical house if it is done correctly. But throwing on columns or a pediment is not necessarily the correct expression for any given building."

J. Robert Hillier, FAIA, who founded Hillier Architecture 40 years ago in Princeton, NJ, hails Skarmeas and his team for giving the firm a national presence in the preservation field. The 300-person firm has primary offices in Princeton, NJ, Philadelphia, and New York City and produces a widely diverse catalog of projects, from Modern, glass-sheathed office towers in Shanghai to the sustainably designed American International School in Chennai, India. In addition to preservation, the firm's other practice specialties are architecture, interior architecture, urban design and planning and graphic design.

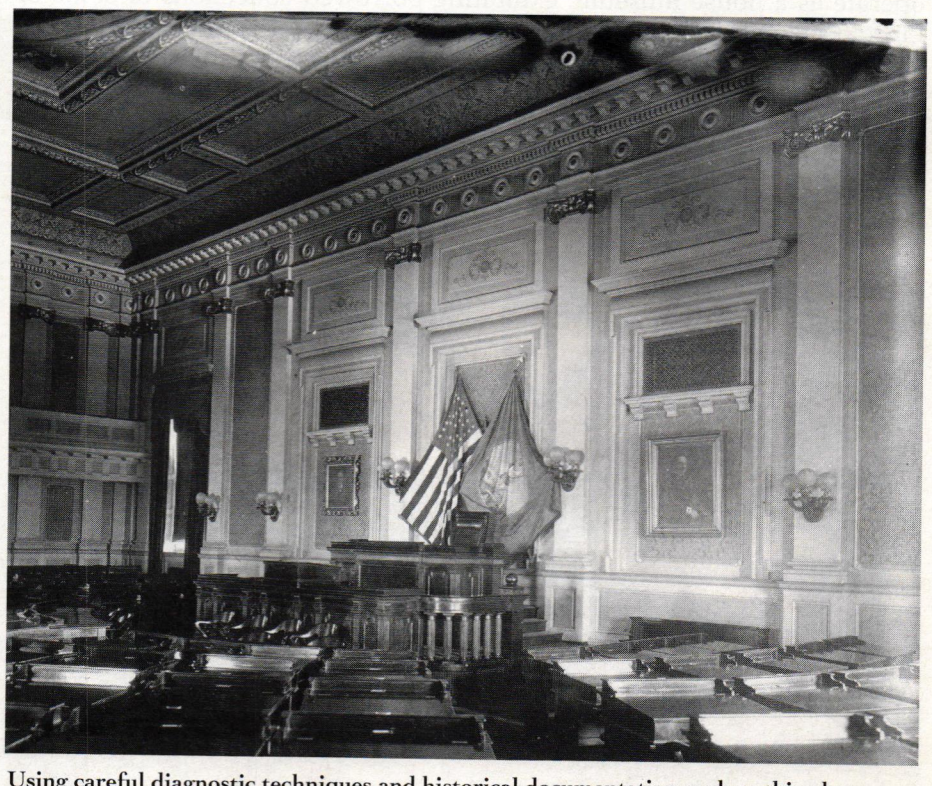
"We're not part of all the noise that's created by the celebration of certain architects," Hillier says. "We're no Frank Gehry because of the way we're structured. We're a service-oriented firm. But what we have done that is different from most service firms is we have established these centers of excellence, such as in preservation, graphics and urban design."

Each studio is allowed to operate with surprising autonomy, although collaboration between practices is easy and encouraged. Although Bob Hillier admits that some potential clients don't know quite what to make of the firm's diverse portfolio, he says that a commitment to top-shelf design and a collaborative, service-oriented approach unify the firm. "I could see that America was starved for a heritage," Hillier says. "More and more buildings were getting older and needed preservation, so I could see it was a growing market. If you take the right people and you give them an entrepreneurial opportunity, they can do wonderful things."

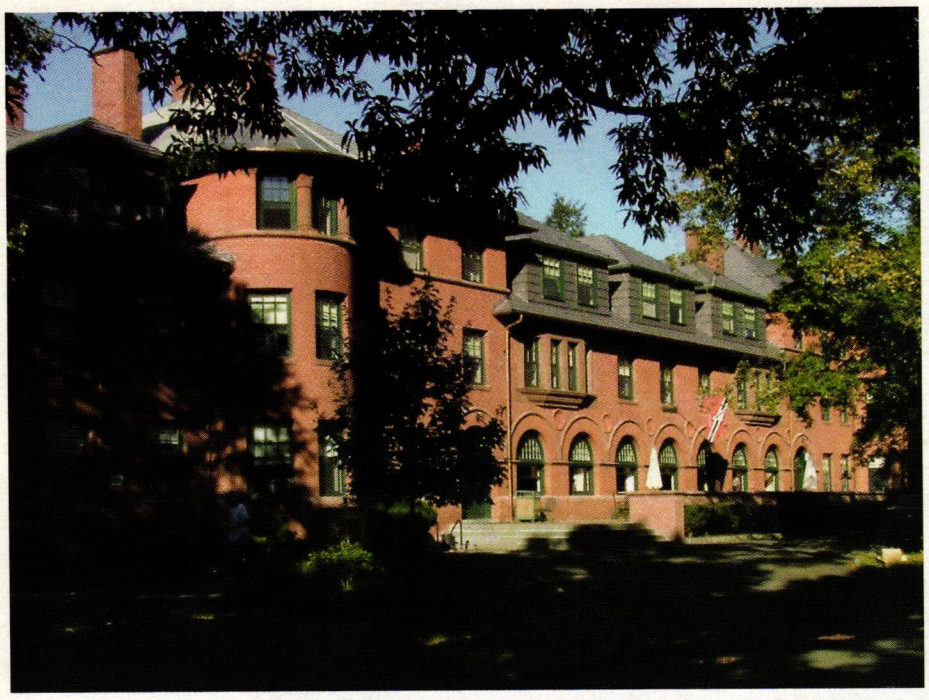
Serving Jefferson and Lincoln

A hundred years have passed since the last major changes occurred at the Virginia Capitol. Between 1904 and 1906, two compatibly designed wings and the steps on the south portico were added to Jefferson's main building. Over time, interior spaces were divided or walled up, decorative paintings

In the Senate and House chambers, as elsewhere, wonderfully detailed paintwork had been covered up over the years. The design team was able to uncover sections that plainly showed the building's original paint colors and designs, which are now being carefully reproduced. *Photo: Kim A. O'Connell*



Using careful diagnostic techniques and historical documentation such as this photo from 1915, the Hillier team is bringing back the colorful decor that once distinguished the Capitol's legislative chambers. In the Senate chamber, the design team tested and re-tested a faux-wallpaper paint pattern until it closely resembled the original.



The Lawrenceville School in New Jersey retained Hillier to restore and upgrade Memorial Hall and a dormitory called Upper House (shown here). The Richardsonian Romanesque buildings are part of a historic campus area called the Circle, which was designed by architects Peabody and Sterns and landscape architect Frederic Law Olmsted.

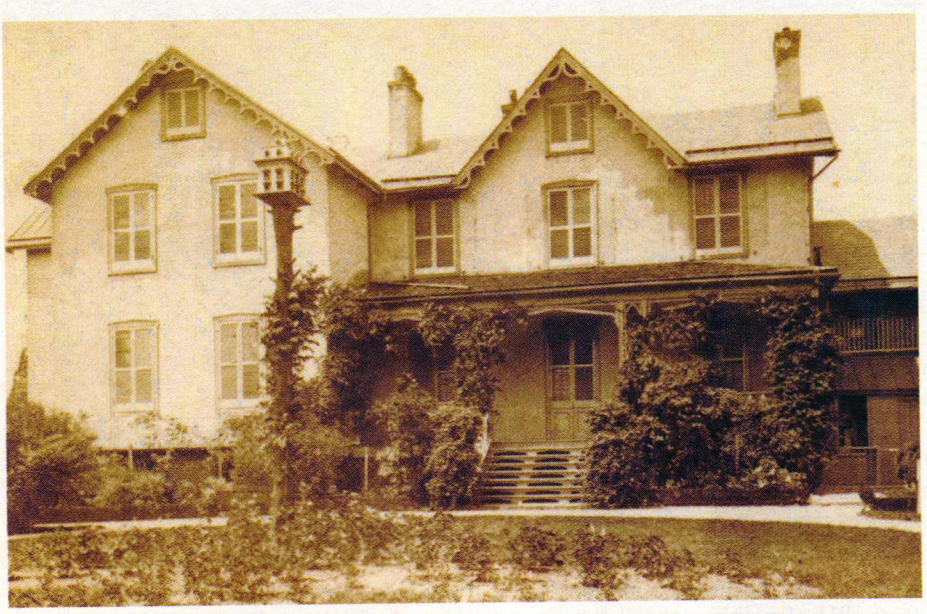
were covered, and mechanical systems deteriorated. Today, the capitol restoration includes both an exterior and interior renovation, including the restoration of the roof, elevators, and stairwells, the complete replacement of the heating and cooling systems, and the abatement of water leakage and moisture. Perhaps most significantly, the project entails the construction of a 27,000-sq.ft. extension beneath the south lawn, which will serve as the capitol's new visitor orientation center.

Because the capitol grounds will remain the greensward they have always been, preserving the traditional "temple on the hill" appearance of the main south entrance, visitors will be funneled into the capitol via an underground passageway. Although dwarfed in size and significance by the capitol, the visitor entrance draws on the Classical vocabulary, with columns and a dentilled cornice. Inside, however, the space will be streamlined and modern, though deferential in its way, as it leads visitors through a series of ascending rooms and exhibit halls until they complete the journey into the capitol itself.

"The conscience of the design is very minimal and contemporary, with elegant materials such limestone and granite, almost a Jeffersonian idea transferred to today," says Sonja Bijelic, AIA, an associate principal. "What excites us a lot is creating a new piece that is in concert with historic places. Every historic building has its own life and way that it is approached. So, always pulling the inspiration from the historical pieces is very important to us."

At the Lincoln Cottage in Washington, DC, the architecture is far more modest, but the historical significance is no less great. The Gothic Revival cottage was the summer retreat of President Lincoln and his family during the Civil War – as important to Lincoln as Camp David is to current presidents. The house was later used as a dormitory and an office building, with industrial green carpet, linoleum covering floors, pocket doors and other architectural features dismantled. After naming the cottage one the nation's most endangered places, the National Trust for Historic Preservation selected Hillier Architecture to prepare a master plan that would include the restoration of the deteriorated house and the creation of a new Lincoln research center.

The complex restoration, which involves removing later additions and restoring details, is made more so because of the dearth of historic documentation. Initial thoughts about the restoration were altered and updated as the team learned more about the building. "Initially, they thought they'd like to operate as a house museum, exhibiting borrowed collections or some of Lincoln's papers," says Richard Ortega, PE, AIA, Hillier's director of preservation technology and project manager for the Lincoln Cottage. "Unfortunately, to be able to borrow those things you have to provide an appropriate museum environment, which would have required a certain level of relative humidity and temperature controls in the building. We



Historic documentation on the Lincoln cottage was scarce, forcing the Hillier team to design "period appropriate" interior spaces. Where they existed, however, historic photos guided accurate restorations of the porch, windows and other exterior elements.

Along with restoration, Hillier also works on adaptive reuse projects. In Philadelphia, the firm is converting the historic Parc Rittenhouse hotel into condominiums with ground-level retail. The building has been altered several times in the past, so the firm is now balancing restoring some of the original design where it can, while adding elements such as three new floors.

basically came to the conclusion that that was a bad idea. The building is the major artifact in this case, and if we choose to turn it into a museum and impose those kinds of mechanical systems on it, you're going to ruin the building, for a variety of reasons."

Because photographs or descriptions of interior spaces haven't been uncovered, the designers created "period appropriate" rooms that do not necessarily display original furniture or artifacts. But using documentation where it existed, the team was able to restore the cottage's porch to its Civil War-era appearance and undertake a meticulous restoration of all the windows. "I have to give high credit to the National Trust for taking a realistic and conservative attitude and not sacrificing the building for exhibits or programmatic needs," Ortega says. "I think the building is an accurate representation of what it was in Lincoln's time. It's a journey of discovery in many ways."

A Future for the Past

Although Hillier's preservation studio continues to target what some might call "pure" preservation projects, as the nation's infrastructure ages, the firm is increasingly tasked with adapting historic buildings to new uses. Even at the Virginia Capitol, the new visitor extension is a statement more about modernity than antiquity. "What makes that project so interesting is that the capitol itself is done in period design, and there's a transitional zone that goes to the addition, which is very contemporary," says James Garrison, AIA, an associate principal who specializes in adaptive reuse. "It's got a nice mix of new and old."

Both Skarmeas and Garrison note that a vast array of renovation decisions, some more successful than others, can be applied under the forgiving banner of adaptive reuse. "My own approach is very thoroughly grounded in preservation and architectural history, projecting it forward, instead of backward, in terms of pure restoration and mimicry," says Garrison. "I want to use traditional design elements as they were really intended and not as a veneer, while keeping the essential qualities of the building. The whole reason you want to adapt a building is that it has certain qualities that are worth keeping."

Despite the historical significance of the Lincoln Cottage – a Gothic Revival structure that served as the president's retreat during the Civil War – the house was allowed to deteriorate so badly that at one point squirrels were the primary denizens. Today, the house is undergoing a comprehensive restoration. *Photo: Robert Lautman, The National Trust for Historic Preservation*

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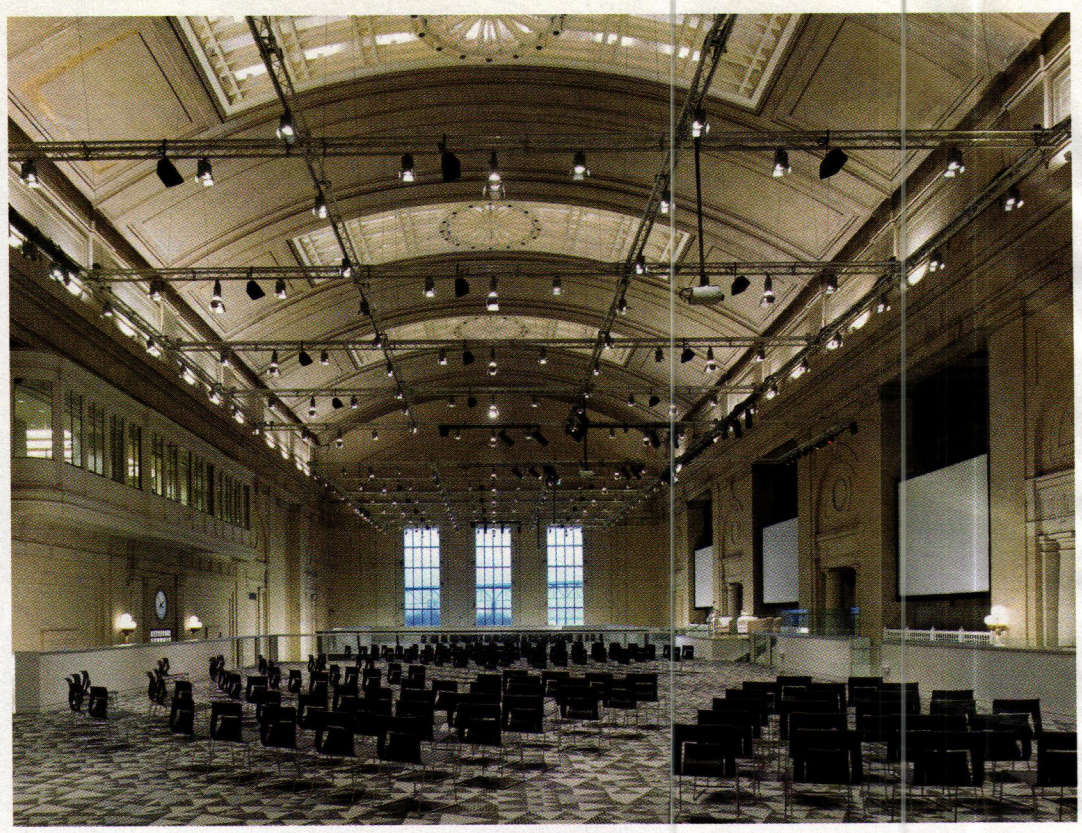


Above and right: One of the firm's most interesting reuse projects was designing the new headquarters for Synygy, a software company, inside the historic Chester Waterside Power Station in Pennsylvania. In the Old Turbine Hall, notable for its 100-ft. vaulted ceiling, a sleek metal-and-glass data center stands where giant turbines once generated power. *Photos: Jeffrey Totaro/Esto*

One such structure is the Parc Rittenhouse, a 1927 hotel in one of Philadelphia's most historic neighborhoods. The 17-story structure, which was first built as the Penn Athletic Club, is replete with architectural features such as iron railings, arched windows and terra-cotta ornaments. The firm is now tasked with converting the building into condominiums above ground-level retail spaces, adding three new stories that will be set back from the original façade to distinguish old from new.

In Somerset County, NJ, the firm is now transforming an early 20th-century country estate once owned by a member of the Macy family (of department store fame) into a boutique hotel and spa for Sir Richard Branson. The main building will be restored to its original appearance wherever possible, with major additions taking their cues from the historic structure.

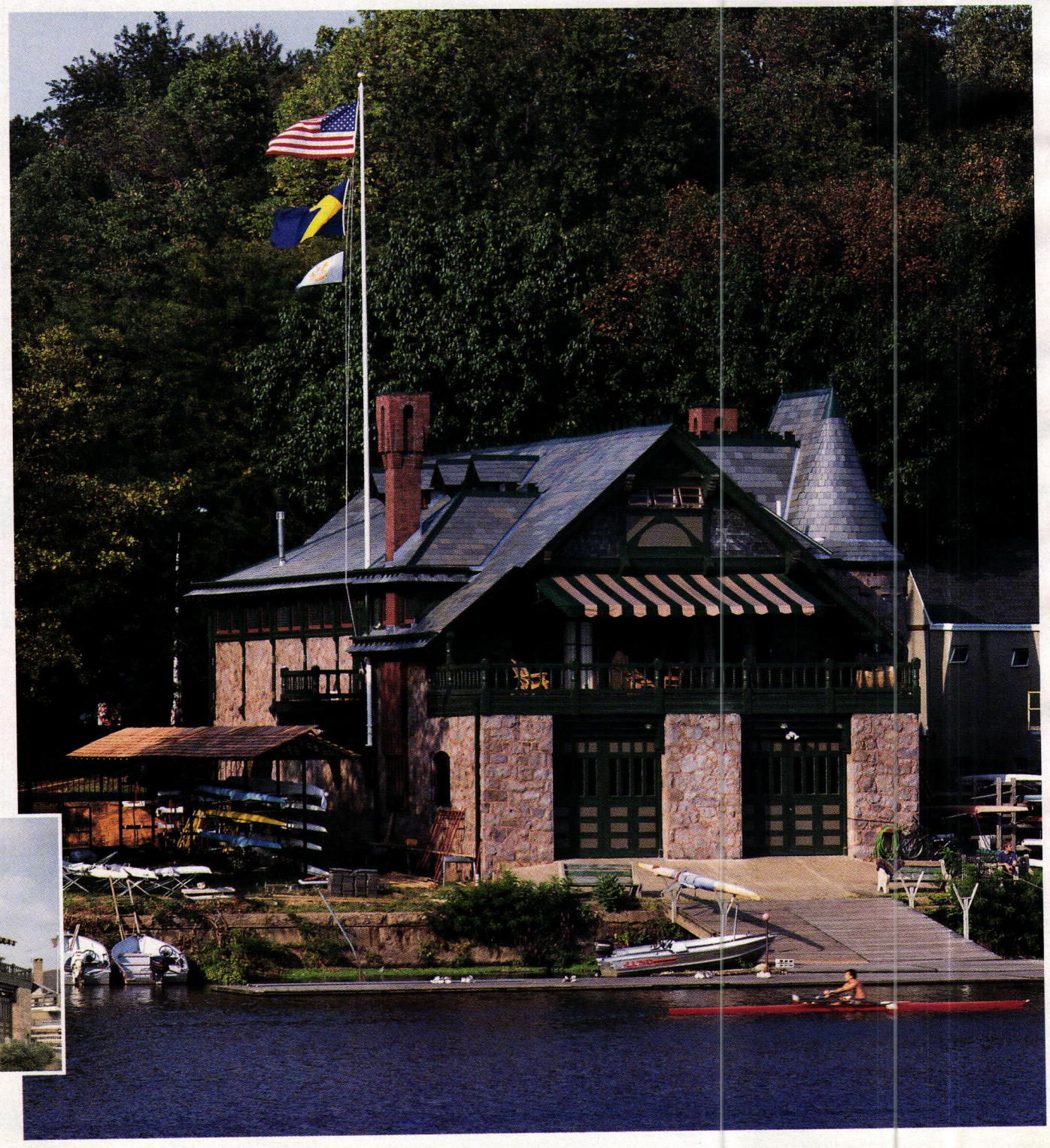
"It's a challenge to design the additions in a way that is compatible with the house and yet distinct, allowing the main portion of the house to be the visually dominant element," says Robert Hotes, AIA, a senior preservation architect with the firm. "While this house is certainly beautiful, and it is significant for its period, it's not a truly landmark structure. We're creating a very interesting dialog between the old and the new. The new pieces will take the old pieces as a starting point and perhaps exaggerate them and play up this luxury aspect, which is part of its program and purpose. It's a more fun response to the historic context."

One of the firm's most intriguing adaptations involved the reuse of the Chester Waterside Power Station, a massive Industrial-Age structure in Chester, PA. Inside the 100-year-old Neoclassical building, the firm designed the sleek, utterly modern headquarters for Synygy, a software development company. At first glance, the cold, gray aluminum and glass boxes that organize the space appear incongruous with the building's warm, cream-colored stone and elegant columns. In a way, though, the fact that a building that once housed the technology of its time now houses the technology of ours is fitting.

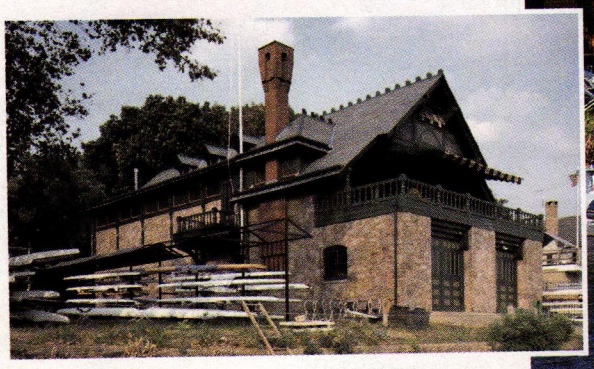
"There are so many young companies that are intrigued by these old buildings," says Sonja Bijelic, who led the project. "The building then becomes almost a learning lesson for other young companies, showing the continuation of the ideas about technology over the centuries. The idea was to show technology and to respect the existing building."

Skarmeas gives high praise to the Synygy project, even if he might prefer to restore those buildings that remind him of the Greek temples of his youth. What he appreciates is the thoughtfulness and intelligence behind the Synygy design – and the fact that the interventions rest lightly on the historic structure and could be easily removed by future generations. "George and the rest of the studio are committed to historic preservation by the book – doing it the right way or not at all," Hotes says. "And that goes for the projects that fit into that premier landmark category as well as anything else."

"Every year more buildings will be deemed historically significant," Skarmeas adds. "From a social point of view, preservation is about more than architecture; it is an important activity that allows people to do the right thing." ◆



Below and right: On Philadelphia's famed Boathouse Row, the 1882 Undine Barge Club still stands as a monument to architect Frank Furness. In one of its first projects, the Hillier preservation studio was charged with recreating the club's original slate roof, restoring stained-glass windows and bringing back Furness' polychromatic design. *Photo: Tom Crane Photography*



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ENERGY EFFICIENCY

More architects and designers are turning to geothermal heating and cooling systems for historic buildings, as well as for new construction.

By Martha McDonald

Geothermal systems are being used more often these days, as clients and architects discover the advantages. They use less energy than conventional HVAC systems, so they are friendly to the earth as well as to the pocketbook, providing energy savings over the years. At the same time, geothermal systems are often easier to install into historic buildings because they have less of an impact on the structure.

Notable restorations such as Trinity Church in Boston and a Motherhouse in Monroe, MI, have incorporated geothermal heating and cooling systems and are giving them good grades. Unity Temple in Oak Park, IL, is gearing up to start installation of its geothermal system. At the same time, new construction projects such as the K.C. Irving Environmental Science Centre at Acadia University in Nova Scotia, Canada, are installing geothermal from the beginning.

Geothermal systems rely on the earth's natural thermal energy, a renewable resource. At approximately six ft. below the earth's surface, the temperature of the ground and groundwater remains stable at approximately 55 deg. F. Heat pumps draw heat from the earth to provide heat in the winter; in the summer, they draw excess heat from the building and transfer it back to the earth.

During a restoration directed by Goody Clancy & Associates, a geothermal system was added to H.H. Richardson's 1877 Trinity Church in Boston, MA. Six holes were drilled 1,500 ft. into the bedrock, almost twice the height of the nearby 793-ft. Hancock Building. They are positioned 45 to 75 ft. apart on the southern and western sides of the building. The holes were drilled by A&W Artesian Well Co., Smithfield, RI, under the direction of Shawmut Design and Construction, the construction manager. *Photo: Peter Vanderwarker*

There are two basic types of geothermal heat systems: closed-loop and open-loop. The open-loop type uses groundwater from wells or surface water from lakes or ponds. The closed-loop type uses a plastic piping network installed either (1) vertically in drilled boreholes or (2) horizontally in trenches or excavations or (3) submerged in lakes or ponds. Vertical systems go deeper and are used on urban sites where land is limited. In horizontal systems, the pipes are closer to the surface (usually 4 to 6 ft.).

While the major advantage is significant energy and money savings over time, other advantages often cited include the fact that geothermal systems require considerably less equipment attached to the building, are quiet and require very little maintenance. The primary disadvantage is higher initial installation costs, but proponents are quick to point out that the energy savings over time more than compensates for this. Another problem is a lack of awareness among the population in general and in some cases, it's still hard to find an installer who's knowledgeable about geothermal.

Statistics from the Geo-Heat Center at The Oregon Institute of Technology, Klamath Falls, OR, show that sales of geothermal systems are growing 10% to 20% a year, according to Andrew Chiasson, research engineer. "About 40,000 units are sold each year," he says. "The technology started in the residential market, but it has slowed down there. Schools and office buildings, especially schools, are the fastest growing segments now. Geothermal has gotten very popular for historic buildings because there is no visible equipment. The pipes are buried underground and the heat pumps can be hidden in closets. There is no outdoor equipment, which means low maintenance and no noise."

He estimates savings in kilowatt hours can amount to 50% - 75% for heating and 30% for cooling. "The translation into dollars is a little different because heating uses fossil fuel," Chiasson says. "One of the barriers is finding contractors who can do the work. There are more people trained in it every year, but that is still a barrier. The cost of installation is usually higher because of the piping, but the payback is usually 5 to 10 years."

The Geothermal Heat Pump Consortium in Washington, DC, says there are more than one million installations in place in the U.S., saving 14 million barrels of crude oil a year. This website points out that the technology has been around for years, but recent improvements in materials and installations, efficiencies of compressors, pumps and other equipment have made it more appealing. This group estimates that sales are growing 20% a year and that geothermal lowers utility bills by 25% to 75%, while producing fewer greenhouse emissions. "It is especially good for historic buildings because there is very little impact to the building," according to this web site. (www.geoexchange.org)

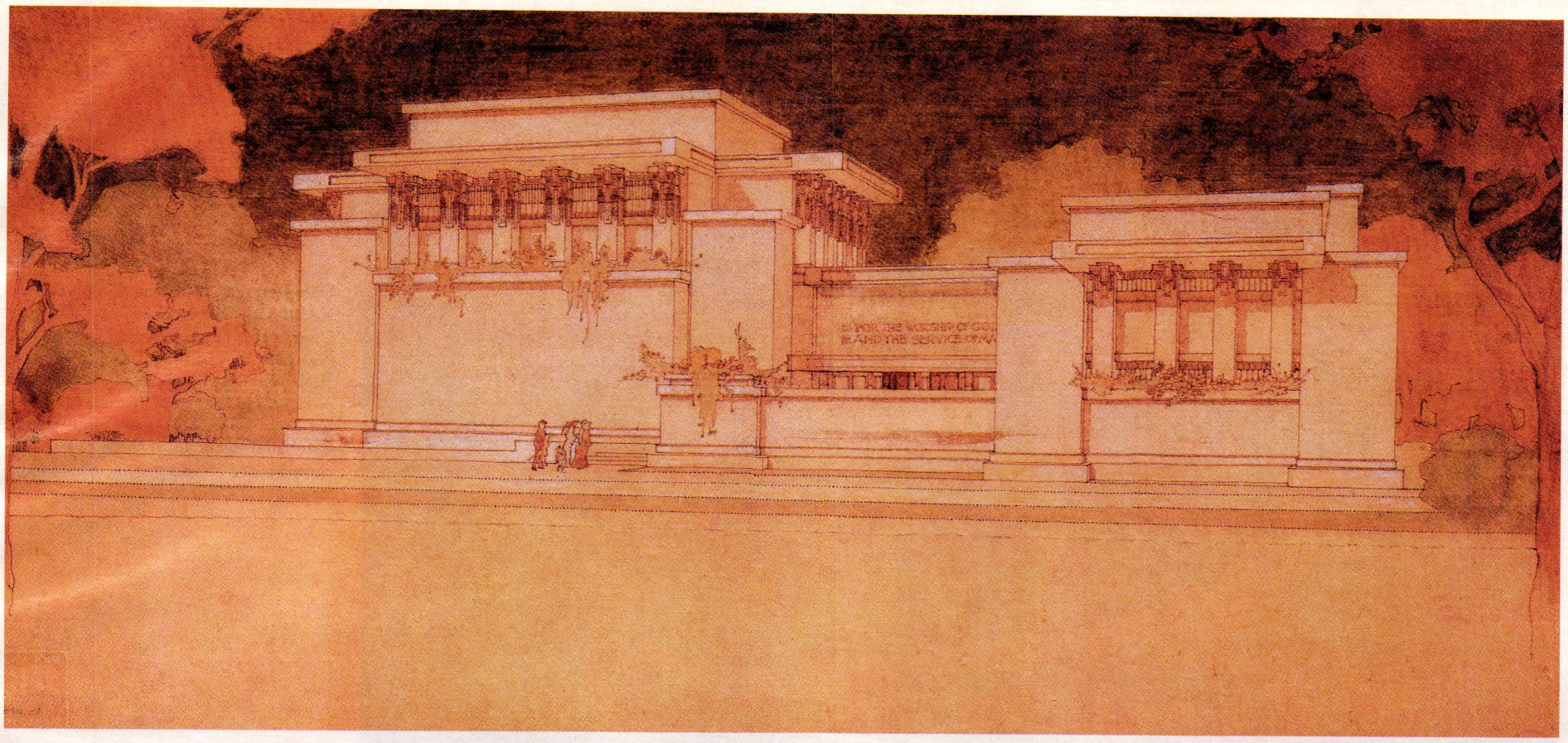
Recently renovated by Boston-based Goody Clancy & Associates, Boston's 1877 Trinity Church decided to use a very deep vertical system. Six holes were drilled 1,500 ft. into the bedrock., 45 to 75 ft. apart on the southern and western sides of the building. The system includes 13 heat pumps housed in an underground mechanical room and is designed to heat and cool the 14,000 sq.ft. renovated space below the sanctuary as well as the adjoining 15,000-sq.ft. parish house. The cost of installation was approximately $800,000, plus $400,000 for the pumps and piping.

"We used a standing-column well design," says Stefan Knust, AIA, Associate, Goody Clancy. "This type of system is used where you have sound bedrock, which serves as the container for the 1,500-ft.-high column of water. By inserting a narrower 'straw,' the water is drawn up from the bottom and moves through the heat-pumps within the building before returning to the top of the well. Overall, the water circulates along a 3,000-ft. path, moving slowly, gathering and delivering heat along the way. The quantity of wells was based on how much heating and cooling was needed, and the system's modular design allows for both demands to be met at the same time. The depth of the wells is almost twice the height of the nearby 793-ft. Hancock Building."

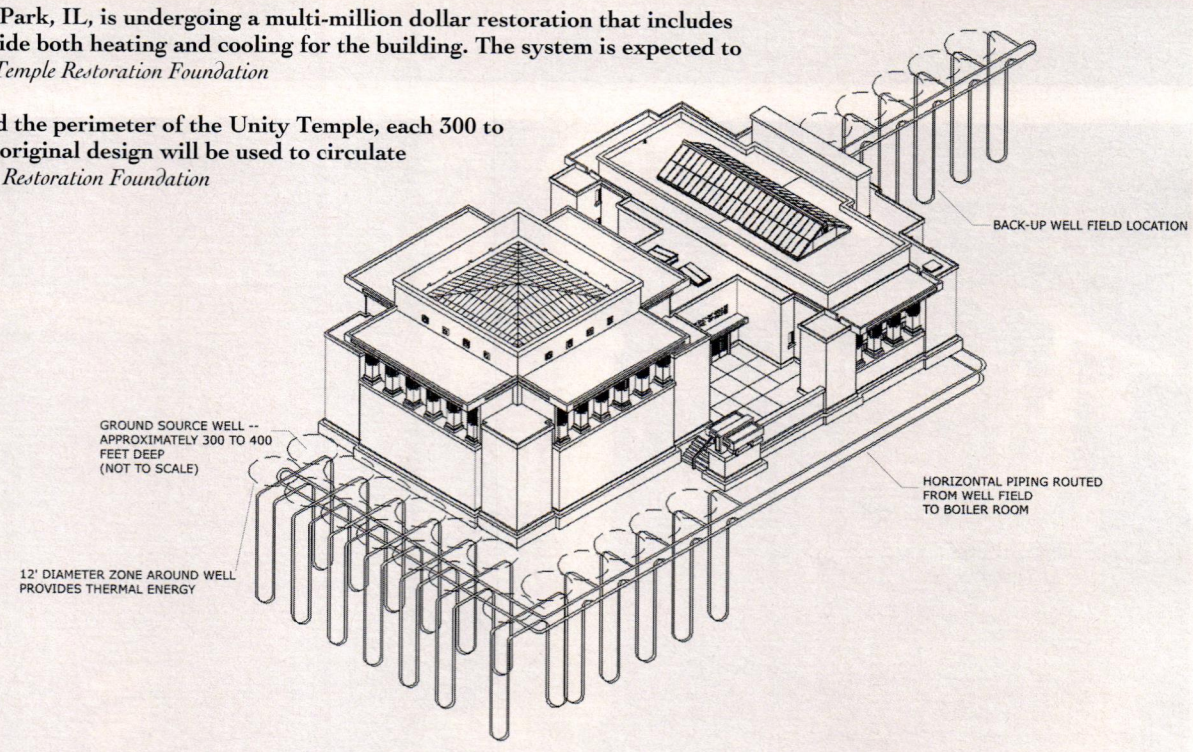
"We did look at other options, but this was the clear winner," Knust adds. "Geothermal systems are almost a no-brainer for historic buildings because they don't touch the building or introduce noise or vibrations. In this project, the estimated cost of putting in a conventional system was very high, comparable to the cost of installing the geothermal system. Plus it uses 40% less energy than a conventional system."

Trinity Church spokesperson Patricia Hurley says that the church is very pleased with the geothermal system. "It was a significant decision and we are particularly pleased with how invisible it is," she says. "We also felt very strongly that we wanted to work with the earth rather than using the resources of the earth. We have only been using it for a year, but our life-cycle analysis showed us it would pay off over time both ecologically and economically."

Another high profile restoration that made the decision to use a geothermal system is Frank Lloyd Wright's Unity Temple in Oak Park, IL. Designed in 1905 and opened in 1909, the Prairie-style building is undergoing a multi-million-dollar restoration that includes the addition of a geothermal system.



Above: Frank Lloyd Wright's Prairie-style Unity Temple in Oak Park, IL, is undergoing a multi-million dollar restoration that includes $2 to $2.5 million for the addition of a geothermal system to provide both heating and cooling for the building. The system is expected to pay for itself in eight to nine years. *Illustration: courtesy of the Unity Temple Restoration Foundation*



Right: Plans call for 26 wells to be drilled into the bedrock around the perimeter of the Unity Temple, each 300 to 400 ft. deep. Existing ductwork and venting included in Wright's original design will be used to circulate the air throughout the building. *Diagram: courtesy of the Unity Temple Restoration Foundation*

Plans call for 26 wells to be drilled into the bedrock around the perimeter of the building, each 300 to 400 ft. deep. The system will provide both heating and cooling and will be supplemented by a high-efficiency boiler system. Existing ductwork and venting included in Wright's original design will be used.

The new system is expected to cost $2 to $2.5 million, about 40% to 50% higher than installing a conventional HVAC system, according to Keith Bringe, executive director of the Unity Temple Restoration Foundation. He expects for it to pay for itself in eight to nine years. "Our incremental payback might be much sooner than anticipated because of the rising cost of fossil fuels," he adds.

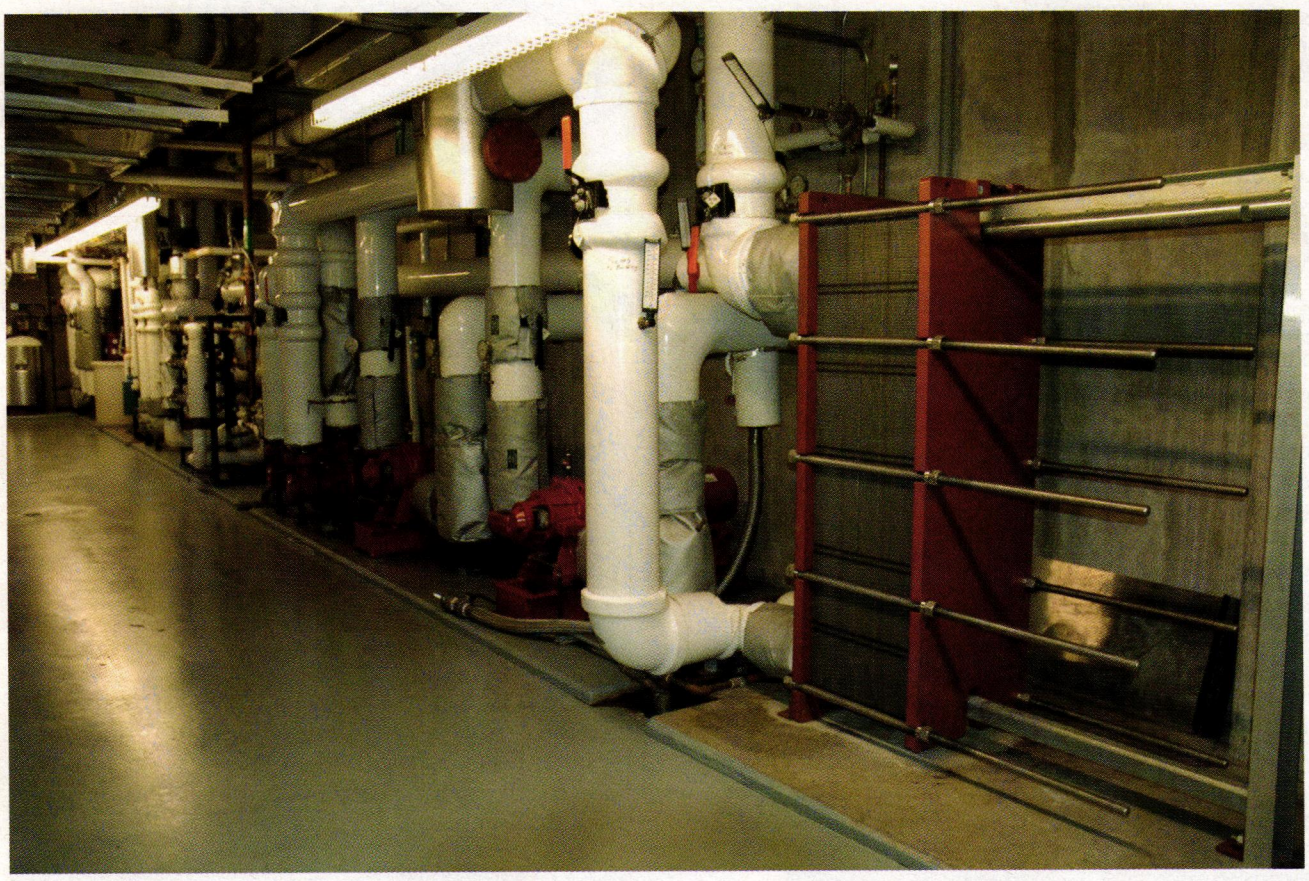
"This is a win-win situation," says Bringe. "The building will be both historic and green. We think this will be an important model for the state and for other historic buildings throughout the country." He added that Frank Lloyd Wright designed one of the first forced-air electric system for the building, but it never worked. "Now we will be able to go back to that system and integrate parts of it into the new geothermal system."

Meanwhile in Monroe, MI, the Sisters, Servants of the Immaculate Heart of Mary (IHM) incorporated a very large geothermal system when they renovated their Motherhouse in 2003 because they wanted a system that was earth friendly. Built in 1932, the 376,000-sq.ft. building was converted into a retirement home for 240 sisters. It also serves as headquarters for the IHM congregation. Because of the harsh winters, they needed a system that provided an 80/20 heating-to-cooling ratio.

Above: The grounds at the Motherhouse of the Sisters, Servants of the Immaculate Heart of Mary in Monroe, MI, were torn up for several months during the installation of the large closed-loop geothermal system. It incorporates 232 boreholes, each 450-ft. deep, connected by 47 miles of pipe. *Photo: Denyse Burkhart*

Right: At one point, four of these rigs were drilling boreholes for the system at the Motherhouse, but it was decided to pull two of them off the site because it was creating too much air pressure in the ground. It took approximately 18 hours to drill each of the boreholes. This geothermal system was designed by the H.F. Lenz Co., Johnstown, PA, and the mechanical system was installed by Monroe Plumbing & Heating. The geothermal field and loop piping were installed by Middleton Corp. and Jackson & Sons Drilling. *Photo: Denyse Burkhart*

Completed in 2002, the 65,000-sq.ft. K.C. Irving Environmental Science Centre and Harriet Irving Botanical Gardens at Acadia University in Wolfville, Nova Scotia, Canada incorporates a geothermal system for cooling only. There is a steam generation plant that heats all of the buildings on campus. *Photo: courtesy of the K.C. Irving Environmental Science Centre*



Approximately 400 to 500 gallons of water will move through the geothermal exchange plates supply and recharge system at K.C. Irving Environmental Science Center to cool the building on a typical hot summer day. *Photo: courtesy of the K.C. Irving Environmental Science Centre*

It took about eight months to install the Motherhouse's closed-loop system, which includes 232 boreholes, each 450-ft. deep, connected by 47 miles of pipe. There are also 466 fan coil units in the house, along with 10 miles of piping and 6 miles of ductwork, also in the Motherhouse building.

The initial installation of the outside portion of the project cost about $1 million, says Danielle Conroyd, project director, Sisters, Servants of the Immaculate Heart of Mary. "We think the payback on the initial investment will be six to seven years. It has already significantly reduced our heating and cooling costs. We found that we reduced gas consumption 58% and water consumption by 49% (from the graywater system) in the first year, for a savings of $187,000," she says. "A large portion of that was from the geothermal system."

The biggest challenge was drilling the holes, Conroyd explains. "The engineers estimated it would take nine to ten hours for each hole, but it actually took 18 hours. Initially we had four drill rigs on the property and about a million gallons of water was displaced every day. We created ponds to store the water and after the sediment had settled out, we pumped it into the local storm system.

"Sometimes the air pressure from the drilling would push the ground water into previously drilled holes and that would push the pipes right out of the ground. With all of these rigs working at the same time, there was a tremendous amount of air pressure going into the ground and water being displaced. Because of these problems, the installers decided to pull two of the rigs off the site and keep two going."

She also stresses that the boreholes are holes, not wells. "We were not tapping ground water to use for our system," say Conroyd. "It's an important distinction. We would have needed a permit for wells."

The system is a huge success, providing not only energy savings, but also comfortable heating and cooling. "Every sister has a thermostat in her room," says Conroyd. "It's a very quiet system. It's an alternative that is benign and is very comfortable. You don't have to sacrifice any comforts. The sisters love it." She also points out that the system is invisible. The geofield in hidden under a parking lot and the front lawn and the manifold vault is set into the ground.

Ronald Staley, vice president of The Christman Company, the construction manager for the Motherhouse project, points out that geothermal systems must be incorporated into a project during the early planning stages. "From a construction planning and implementation standpoint, the logistics of laying out the geothermal field must be considered early in the project planning and design," he says. "Water and slurry retention ponds, impact to historic trees and working around known or unknown underground utilities can have a significant impact on the cost and ability to install a suitable system within the project site."

Geothermal systems are also appearing in new construction. Completed in 2002, the 65,000-sq.ft. K.C. Irving Environmental Science Centre and Harriet Irving Botanical Gardens at Acadia University in Wolfville, Nova Scotia, Canada incorporates a geothermal system for cooling only. There is a steam generation plant that heats all of the buildings on campus.

This system takes advantage of a large, nearby aquifer. Water is drawn from the aquifer, pumped up a hill, sent through the heat exchangers and is then gravity-fed into a recharge well and slowly drained back into the aquifer. "The temperature difference between the supply water and the refill water is only a few degrees, which is very important," says Preston J. Gumberich, AIA, associate partner, Robert A.M. Stern Architects. "The initial motivation for this system came from our client, the Irving family. They are very interested in environmental issues and since this is an environmental science center, they wanted to incorporate the latest technology to create a more sustainable building."

"We are very happy with the system," states Peter Romkey, director of the science center and botanical gardens. "We are an environmental science center, so it made sense from the perspective of savings in electricity and from the perspective of conserving the earth's resources. We needed a robust cooling system for the research environments. The cost to cool the research facility alone using conventional system would have been significant, and you would have had condensers running outside of the buildings."

He adds that other buildings on campus are investigating geothermal technology for both heating and cooling and the community is watching to see how it affects the aquifer. Romkey also cites low maintenance as an advantage. "We think it will be 25 years before we have to replace or service the pump," says Romkey. "It's a very robust, reliable system for cooling." ◆

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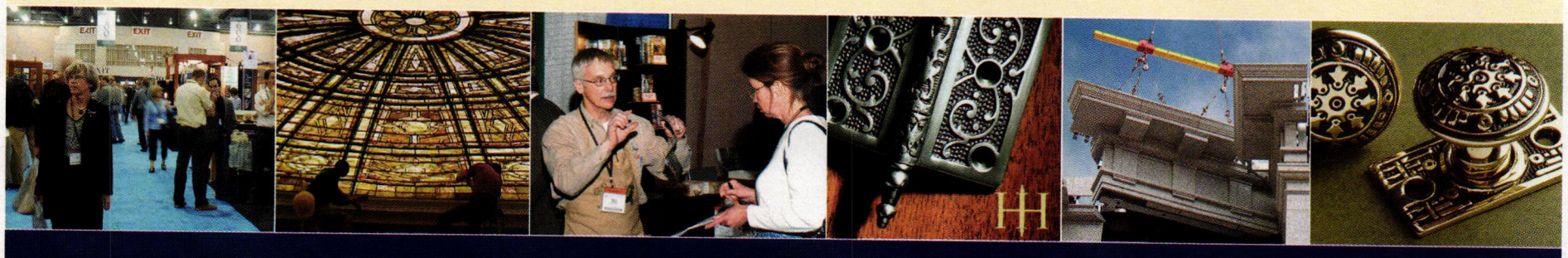

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2006 PALLADIO AWARDS

For Excellence in Traditional Commercial & Civic Architecture

Sponsored by *Traditional Building* and *Period Homes* magazines and the Traditional Building Exhibition and Conference

The Palladio Awards program honors outstanding achievement in traditional design. The goal of the program is to recognize project teams whose work enhances the beauty and humane qualities of the built environment through creative interpretation and adaptation of design principles developed through thousands of years of architectural tradition.

The Awards are named in honor of Andrea Palladio, the Renaissance architect who created modern architecture for his time while using models from the past for inspiration and guidance. The program applies the same criteria that Palladio used in his own work: Projects should meet all the functional needs of contemporary usage while applying lessons learned from previous generations to create beauty in the built environment.

The Palladio Awards were presented at a ceremony in Chicago on Wednesday, April 5, as part of the Traditional Building Exhibition and Conference. The winners presented their projects the following day during the conference.

The winners for commercial and institutional work are:

Restoration & Renovation: **Einhorn Yaffee Prescott, Architecture & Engineering P.C.**, Albany, NY

Sympathetic Additions: **Architexas**, Dallas, TX

New Design & Construction: **Chael, Cooper & Associates**, PA, Coral Gables, FL

Public Spaces: **National Monuments Foundation**, Atlanta, GA

Six awards were also made for residential projects.

On the following pages, you will see the four winning projects for commercial and civic architecture. (The six winners in residential design will be published in the July 2006 issue of *Period Homes*.) We congratulate all of the winners and the other firms that submitted projects for producing buildings that are both beautiful and functional.

For more information on how to enter the 2007 Palladio Awards competition, click on the Palladio icon at www.traditional-building.com or go to www.palladioawards.com.

The Jury

A jury of distinguished design professionals was selected by the editors of *Traditional Building* and *Period Homes* magazines. They were:

David Mayernik, David Mayernik Ltd. and the University of Notre Dame School of Architecture
Peter Pennoyer, Peter Pennoyer Architects
Elizabeth Plater-Zyberk, Duany Plater-Zyberk & Company and the University of Miami School of Architecture
Richard Sammons, Fairfax & Sammons Architects
George Skarmeas, Hillier Architecture

The Palladium

The Palladium is the cast-bronze trophy awarded each year to the winning firms in the Palladio Awards design competition. The trophy is based on a motif that has been in continual use as an architectural enrichment for more than 2,500 years: the Greek anthemion. The anthemion, a highly stylized version of the Greek honeysuckle or palmette plant, has been used through the centuries to decorate everything from the Parthenon to contemporary Classically influenced furniture.

To create the trophy for the Palladio Awards program, the design studio at Historical Arts & Casting, Inc., West Jordan, UT, took the traditional anthemion form and adapted it to create a new ceremonial sculptural shape. The Palladium trophies were then cast from the model in architectural bronze using the traditional lost-wax method.

In creating the Palladium, the artisans at Historical Arts & Casting, Inc. exemplified the basic goals of the Palladio Awards program: They've given us a dramatic example of how historic forms can be adapted and used to create beauty in the modern world.

Restoration & Renovation

WINNER: EINHORN YAFFEE PRESCOTT, ARCHITECTURE & ENGINEERING, PC

Legislative Beauty

Project: Washington State Legislative Building, Olympia, WA

Architect: SRG Partnership, Inc., Seattle, WA; Ralph Belton, AIA, principal in charge

Preservation Architect & Engineer: Einhorn Yaffee Prescott, Architecture & Engineering, PC, Albany, NY; Mark Thaler, AIA, principal in charge

Structural Engineers: Swenson Say Faget, Seattle, WA

Exterior Stone Consultant: Wiss, Janney, Elstner Associates, Inc., Seattle, WA

General Contractors: M.A. Mortenson, Bellevue, WA; Merrill Contractors, Vancouver, WA; Perini Corp., Framingham, MA

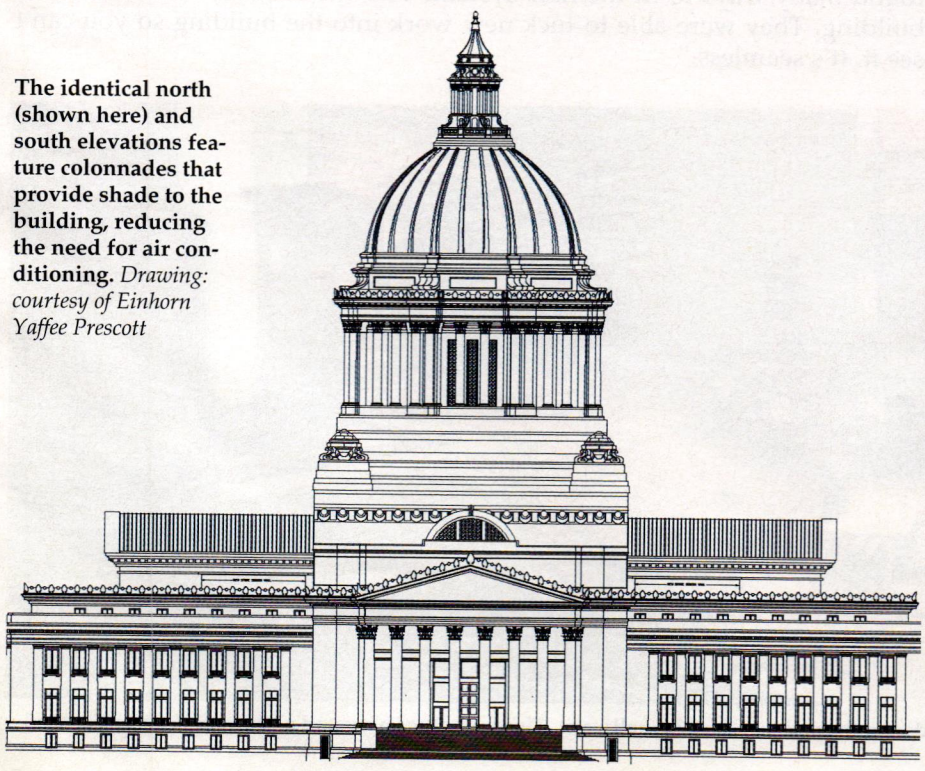
The $120-million restoration of the Washington State Legislative Building in Olympia, WA, added contemporary systems while maintaining the historic fabric of the 75-year-old structure. The masonry dome, which reaches a height of 287 ft., was secured so that the building is now ready to withstand another earthquake and to serve the public for at least another 50 years. *Photo: Doug Walker Photography*

Designed by Wilder & White of New York City and built between 1922 and 1928, the Washington State Legislative Building in Olympia, WA, has been described by Henry Russell Hitchcock as the "climax" of the American Renaissance of state capitol construction. It sits on a hilltop overlooking the southern tip of Puget Sound and the Olympic Mountains and is said to be the state capitol that is closest in design to the U.S. Capitol in Washington, DC.

One of the distinguishing features of this grand, four-story, 300,000-sq.ft. structure is its 287-ft.-tall central circular drum tower with a dome and cupola, the fourth tallest masonry dome in the world. "The first three are St. Peter's in Rome, St. Paul's in London and St. Isaac's in St. Petersburg, Russia," says Patricia McLain, project director, Washington Department of General Administration.

The brick-and-stone building is adorned with hand-carved friezes and is the centerpiece of a group of buildings that make up the capitol. Among the many outstanding features are the six cast-bronze doors – each weighing five tons and each bearing a different scene from Washington's past – that open into a sumptuous interior. A large chandelier designed and built by Louis Comfort Tiffany hangs in the central rotunda and polished marble and decorative plaster are found throughout the building.

Time had taken a toll on the building and by 1999 it had fallen into a state of disrepair. The state was planning a 5½-year restoration of the building, which is listed on the National Register of Historic Places, when the 6.8-magnitude Nisqually earthquake hit the area on February 28, 2001. (M.A. Mortenson actually signed documents naming them contractor/construction manager on that morning.)



The identical north (shown here) and south elevations feature colonnades that provide shade to the building, reducing the need for air conditioning. *Drawing: courtesy of Einhorn Yaffee Prescott*

The earthquake caused considerable damage, making the building unsafe. Plaster delaminated, lights fell and the 33-million-lb. dome was actually lifted and rotated, leaving its unsupported stone columns out of plumb by up to six inches. Forced to evacuate, lawmakers decided to accelerate a complete restoration along with seismic upgrades and earthquake repairs. They also asked for the work to be done in a shorter timeframe – 2½ years. The complete restoration included the scope of the work prior to the earthquake plus earthquake repair.

The $120-million restoration, led by SRG Partnership of Seattle, WA, and Einhorn Yaffee Prescott, Architecture & Engineering, PC, (EYP) of Albany, NY, included $16 million in earthquake repairs and has put the building

Workmen got a good view from the side of the building as they drilled from the gutter of the dome down through the center of each column to the colonnade base. Steel rods were then inserted into these holes and concrete was pumped into them to tie the dome, columns and base together. *Photo: Dick Milligan*

Above and right: All of the exterior surfaces were cleaned, repaired and recaulked, including the four mini-domes and the capitals. *Photos: Dick Milligan*

Keith Phillips of the Tenino Quarry carved decorative elements to replace those that had been damaged by the earthquake. *Photo: Dick Milligan*

back in order, restored its historical integrity and added new modern systems. "The combination of earthquake repairs with the restoration and renovation added to the complexity of the project," McLain notes. "It was both an opportunity and a challenge to bring the building up to 21st-century standards, add access for people with disabilities and achieve sustainability goals while maintaining the sensitivity to the historic fabric of the building. EYP was able to incorporate energy conservation and sustainability principles and integrate accessibility. When it was finished, all of the historic elements were preserved, yet all of the modern amenities are included."

"The Legislative Building is a truly unique building in Washington," says Ralph Belton, AIA, principal in charge, SRG Partnership. "A 75-year-old building is very old by Washington standards. The basic challenge was to introduce up-to-date seismic, mechanical, electrical, plumbing, fire sprinkler and communication/data systems into a building that was built in a time when air conditioning didn't exist and when office equipment was a manual typewriter and 40 phones.

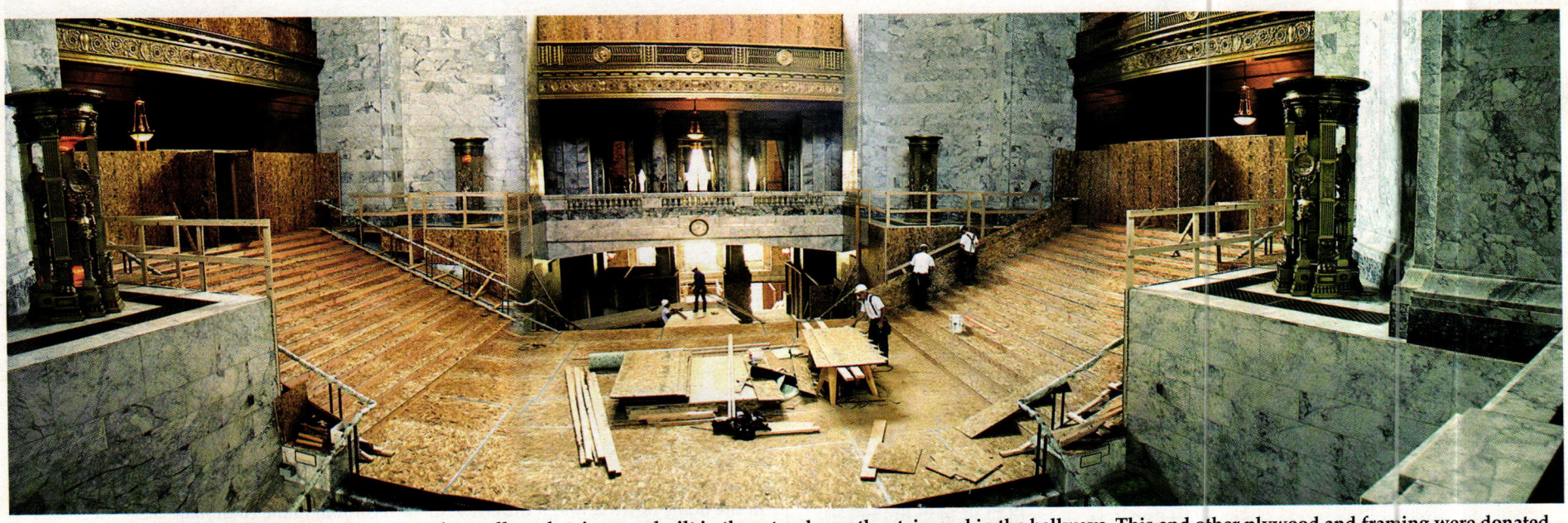
"All of this needed to be done without affecting the historic fabric of the building. The careful insertion of new systems into the building is the opposite of how we build new buildings, so it was a challenge to the builders. We also required trade skills for plaster, painting and stonework that aren't widely available. The design of this project required a much more collaborative process that included the builders from the beginning." Throughout the project, the ornate marble, bronze and oak finishes were protected and workmen were educated before they were allowed into the building.

"One of the biggest challenges was getting all of those systems into the building," agrees Mark Thaler, AIA, principal in charge, EYP. "Fortunately, the columns around the building actually provided a shading factor that cut down on the needs of the cooling system. Also, there were some existing pathways that we could utilize." An interesting feature of the building is that the original design took ventilation into consideration. In fact, the original mechanical systems were "intricately interwoven into the structure," according to an article in the November, 2004, issue of *Columbia Magazine*, A Legislative Building Commemorative Issue, by Christopher Tavener of Einhorn Yaffee Prescott. EYP was able to take advantage of the original systems when incorporating modern mechanicals.

In addition, more than 12 miles of new hydronic piping and four miles of new heating ducts were installed behind walls and in ceilings. Ten miles of new plumbing piping were tucked behind the walls. Concrete floors were opened so that more than 1,000 miles of new wiring for computers, phones and wireless technology could be installed.

Late in the project, it was discovered that some of these ducts were wrapped in asbestos. Mortenson solved this problem by lining the ducts with epoxy, rather than removing the asbestos. Removal would have cost an estimated $2.4 million and would have delayed the project by four months. At the same time, embedded roof and balcony drains and piping could not be removed and replaced without causing significant damage to the historic sandstone façade, so they were also lined with epoxy to restore them.

In one example of using space wisely, EYP inserted conduits in the clay tiles in the ceiling instead of lowering the ceiling. "The clay tiles were hollowed out so the space could be used for pathways for new fire protection systems and electrical conduit," says McLain. "This meant that the ceilings didn't have to be lowered to make room for the conduits. EYP found many ways to fit the new systems into the existing structure of the building. They were able to tuck new work into the building so you can't see it. It's seamless."



To protect the marble and historic finishes, protective walls and stairs were built in the rotunda, up the stairs and in the hallways. This and other plywood and framing were donated to Habitat for Humanity and used to frame three new houses. *Photo: Dick Milligan*

Light fixtures throughout the building were restored and retrofitted with fluorescent bulbs that use 75% less energy than traditional bulbs, saving as much as 73,000 kilowatt hours a year. Where new fixtures were needed, they were salvaged from other buildings or were made to match. *Photo: Dick Milligan*

Stabilizing the 16 exterior columns at the base of the dome that had shifted during the earthquake was the first phase of the project. Because it was impossible to put them back into position, the architects and engineers devised a solution that involved drilling 60 ft. through the gutter of the dome, the center of each column and the base of the dome to anchor the columns. Hollow, reinforcing steel was inserted into these holes and more than one million pounds of concrete were pumped in to tie the dome, columns and base together.

In addition, fiber wrap was placed behind ornamental marble paneled walls to keep them from delaminating and any damaged stonework, masonry or plaster finishes were either replaced or repaired. The building is now reinforced to withstand an earthquake with a magnitude of up to 8.2.

"We all collaborated on how to strengthen the building," says Belton. "Mike Wright, the engineer with Swenson Say Faget [Seattle, WA] modeled the building on the computer, using finite element analysis, and he told us the columns needed to be pinned in place. So we brainstormed and came up with the idea of drilling the columns and adding cement and then we found someone who had experience with that kind of drilling." During the drilling, the architects and engineers noticed that water and brick dust was pouring out of the holes. To solve this problem, grout was poured into the holes whenever they reached a joint. This sealed the leak and they were able to drill through the grout. "It was interesting," he adds. "Many people worked together to make this work."

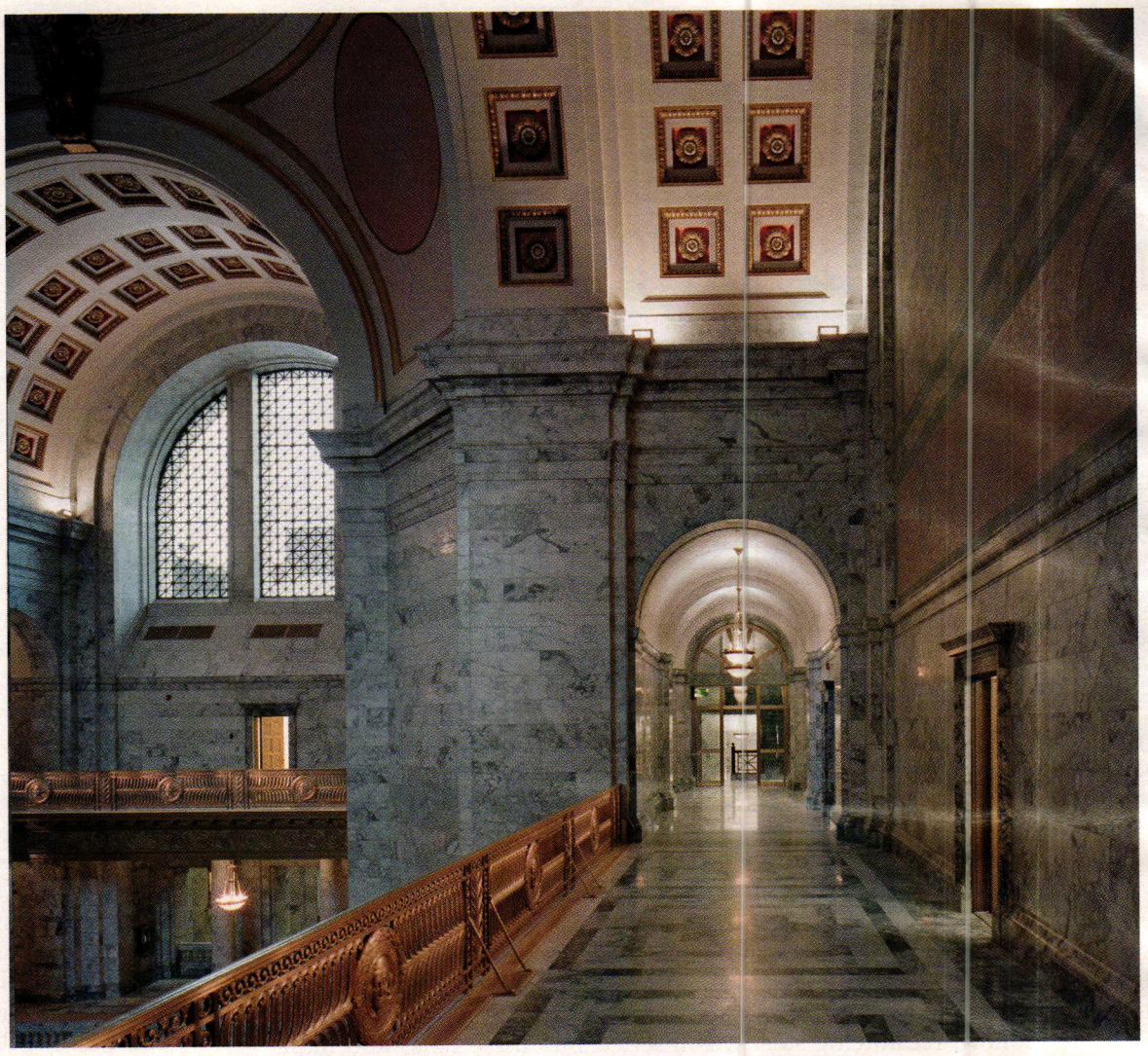
The building also needed an egress route that met code requirements. Instead of adding new stairways, EYP improved and protected the existing egress system by enclosing the north rotunda stairs in a fire-resistant glass and bronze wall. This solution maintains the visual openness of the stairway while also providing safe exit in case of a fire. "After we had a timed-egress study done by Rolf Jensen & Associates of Chicago, we took two stairwells that were unenclosed and provided glass enclosures," says Thaler. "They are fire-rated glass in bronze-finished steel structures. This kept the openness of the stairs and created a fire-rated egress that would bring people all the way through the building."

Securing the five-ton "Angels of Mercy" Tiffany chandelier posed another problem. Originally the engineer recommended steel cable to reinforce the 101-ft.-long chain holding the chandelier 25 ft. above the rotunda. However, they realized that a typical steel safety cable wasn't pliable enough to be woven into the original chain. The engineer, Mike Wright, an avid sailor and ship builder, recommended kevlar rope, the same material used in sailboat rigging, and this proved to be both strong enough and flexible enough to hold the chandelier without being obtrusive. In fact, it worked so well that kevlar rope was used to secure all of the major chandeliers in the building.

A number of specialty contractors were brought in to work on the project, including Master Millwork of Puyullup, WA; Architectural Grille of Brooklyn, NY, and Architectural Reproductions of Seattle, WA. Pioneer Masonry Restoration of Seattle, WA, repaired the exterior stone; Western Tile and Marble, Bellevue, WA, repaired the interior stone work, and D. L. Henricksen, Tacoma, WA, repaired the extensive plaster damage. The decorative painting was restored by EverGreene Painting Studios, Oak Park, IL.

This project became the first state building in the country to apply LEED standards to the preservation of a state capitol. The design team documented the challenges of applying LEED standards to historic preservation and met with the U.S. Green Building Council (USGBC) in Washington, DC, to

The earthquake damage to the ornate plaster ceilings and marble walls in the legislative chambers was repaired. While Alaska Tokeen marble was used in most of the building, European marbles line the walls of the chambers. *Photo: Doug Walker Photographer*



Above and right: Walls clad in marble, ornate decorative plaster ceilings and original brass railings throughout the building create a grand atmosphere for the governor's and legislative offices. EYP was able to insert new systems into the building while preserving the historic fabric of the building. *Photos: Peter Aaron/Esto*

encourage the development of specific standards for historic preservation. The primary focus of these efforts included reusing the existing building, improved energy efficiency and recycling building materials. For example, Alaska Tokeen marble salvaged from the renovation of Smith Tower in Seattle, WA, (once the tallest building west of the Mississippi) was used to replace marble damaged by the earthquake in the legislative building. In addition, 85% of the construction waste, more than 8,000 tons of demolished material, including wood, concrete, paper, bricks, dirt, metal and drywall, were recycled. "Typically, 25% is recycled or reused," says McLain. "In other instances, EYP and Western harvested marble from one room and used it in another."

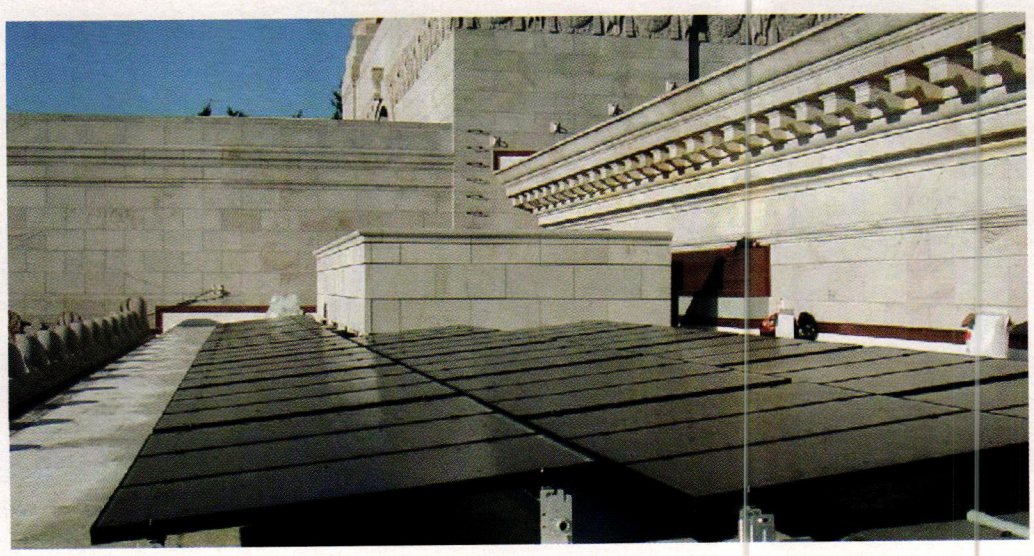
Another energy-conservation facet of the project was the addition of energy-efficient lighting, compact fluorescent lamps that last eight to ten times longer than conventional light bulbs. In addition, photovoltaic cells were incorporated into the rooftop. They generate enough electricity to light the dome at night. "This is the largest array of photovoltaic cells on any state capitol in the country," Thaler notes. "It was installed so it is only visible from the air."

"It's even larger than the array of photovoltaic cells on the White House," McLain adds, "and it's totally integrated into the building facade. We wanted to show people that it is possible to use solar energy on an historic building, to be a model for others."

One change in the floor plan was opening up some of the areas on the first floor. "This transformed what people called the basement into a lighter, more open space and provided much-needed public gathering space," says Belton, "including an area for visiting school children."

Essentially, the building was taken apart, and infrastructure, safety and security issues were resolved. Then as it was put back together, historic materials were restored or repaired. "Everyone felt indebted to the original architects," says McLain. "They left us a magnificent building and they set high standards of craftsmanship. All of the workers were inspired by their work and rose to the occasion."

"The building has a vintage look with high-tech equipment just below the surface," Belton adds. The restored landmark reopened to the public in December of 2004 and is once again a source of pride for the citizens of the state. – *Martha McDonald*



Above right: The 101-ft. cable holding the five-ton "Angels of Mercy" Tiffany chandelier that hangs 25-ft. above the rotunda was reinforced with a kevlar rope rather than a standard steel safety cable. Normally used in sailing, kevlar rope is stronger than steel cable and more flexible, so it could be woven into the original cable without detracting from the appearance. *Photos: Peter Aaron/Esto*

Right: Photovoltaic cells hidden away on the rooftop are visible only from the air and provide enough electricity to light the dome at night. *Photo: Dick Milligan*

Sympathetic Addition

WINNER: ARCHITEXAS

Now the Bells Toll

Project: Tower addition to Cathedral Santuario de Guadalupe, Dallas, TX

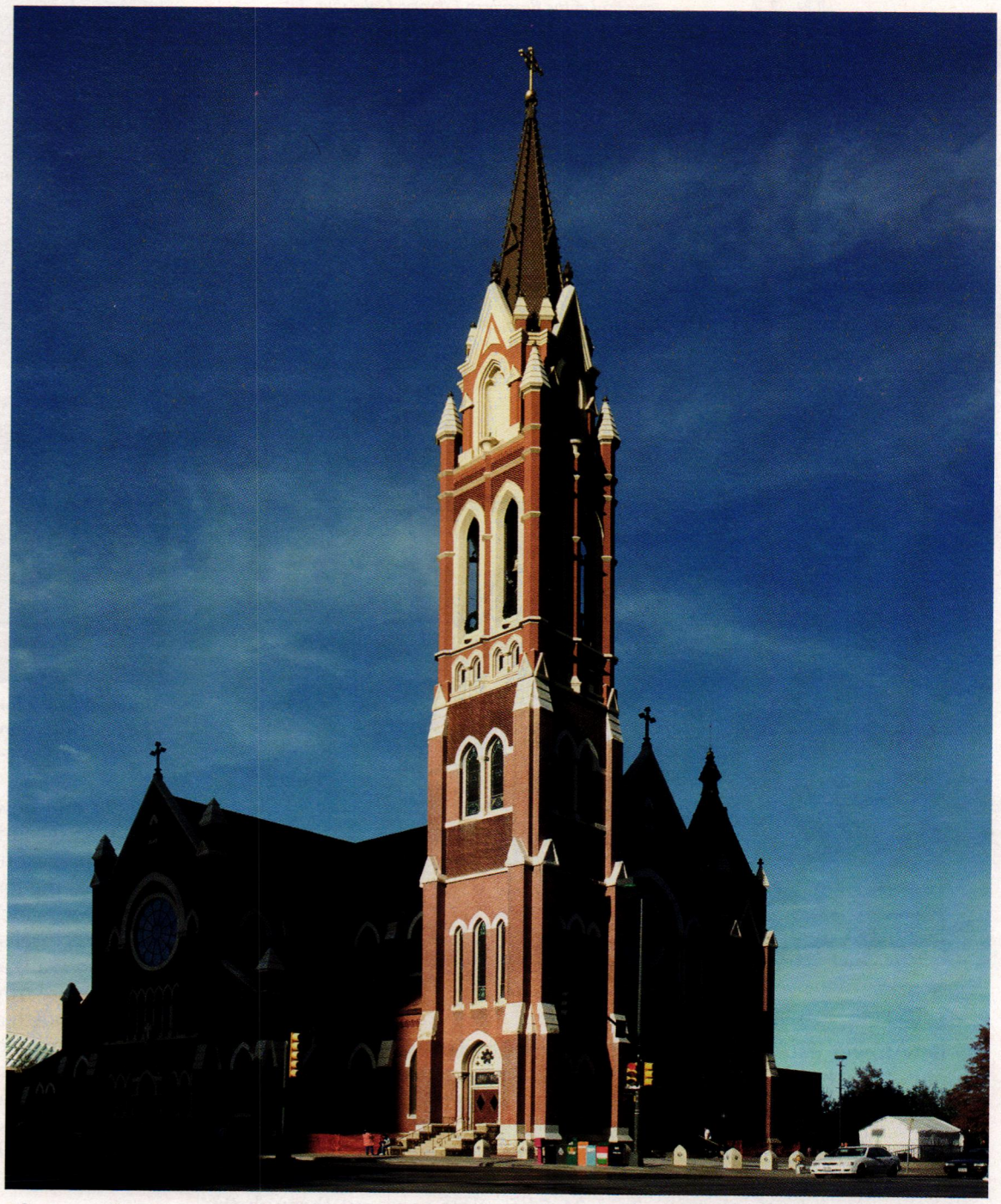
Architect: Architexas – Architecture, Planning and Historic Preservation, Inc., Dallas, TX; Gary Skotnicki, principal in charge; Richard Martratt, project architect; Jay Firsching, David Chase, Carrie Zaboroski, Elizabeth Cummings, Jeff Cummings, associates

General Contractor: Andres Construction Services, Dallas, TX

Structural Engineer: Jaster-Quintanilla, Dallas, TX; Steven, H. Lucy, PE

Lighting Design: Lindsley Architectural Lighting; Alan Lindsley, principal

Electrical Engineer: OLA Consulting Engineers, Dallas, TX



After more than two years of work and having waited for more than 100 years, the Cathedral Santuario de Guadalupe in downtown Dallas, TX, finally has its tall tower as well as a massive 49-bell carillon. Directed by Architexas, the $4.7-million project involved adding 135 ft. to the existing historic west tower, bringing the overall height to 224 ft. *Photo: Carolyn Brown, Dallas, TX*

The Sacred Heart Church in Dallas, TX, now the Cathedral Santuario de Guadalupe, was designed in the 1880s by noted Galveston, TX, architect Nicholas J. Clayton with tall towers on the south façade. It was completed in 1902, but the spires were not built at that time, presumably for financial reasons. The bases were there, but they were capped with simple wood-framed hipped roofs.

A later, simpler design by Clayton incorporated one tall tower and a shorter one, and a still later third design in 1907 featured a Beaux-Arts tower with a clock. Now, after more than 100 years, the church has finally completed the towers, the tallest housing a 49-bell carillon and clavier, thanks to a $4.7-million project and the design efforts of Architexas of Dallas, TX.

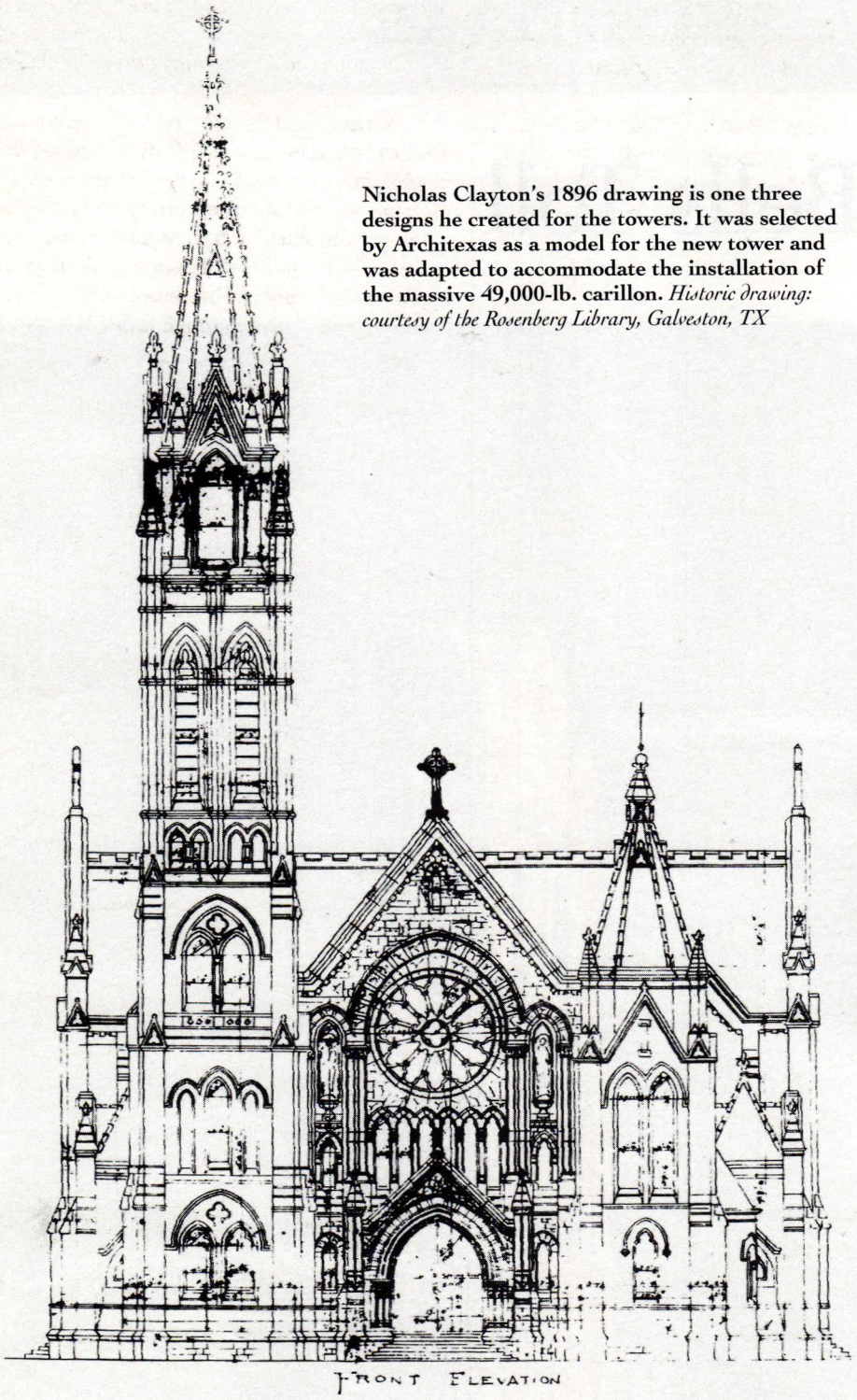
"The new design is an adaptation of Clayton's second version," says Jay Firsching, preservation specialist at Architexas. "We felt like the middle design most closely matched the style of the building as it was intended to be constructed," he explains. "These are also the more detailed and developed of Clayton's drawings, so they were interpreted and adapted in designing the new towers."

This project presented a number of design and engineering challenges. First, the towers had to be compatible with and enhance the original historic building. Secondly, the taller of the two had to support the new quite-heavy carillon requested by the diocese. The new spire adds 135 ft. to the original base to reach a height of 219 ft. from the ground floor (224 ft. from grade) and supports the 49-bell carillon system weighing 49,000 lbs. and a clavier (keyboard) to play the bells. Manufactured in the Netherlands, this particular carillon includes 45 static bells, the largest weighing 2,200 lbs., and four swinging bells, the largest weighing 9,400 lbs. It was quite a challenge to hoist these bells into place, with the largest and highest bells located 146 ft. above street level.

Taken on July 12, 1911, this historic photo shows the crowd gathered at Sacred Heart of Jesus for the consecration of Bishop Lynch. Presumably for financial reasons, the towers were not completed and were capped with simple hipped roofs. *Photo: from the collections of the Texas/Dallas History and Archives Division, Dallas Public Library*

"We had to interpret the original 1/8-in. scale drawings based on the existing detailing of the cathedral," says Gary Skotnicki, Architexas' principal in charge, and the person charged with adapting the historic design. "The original structure is load-bearing solid masonry with interior timber framing. We had to determine the best way to detail and construct the new tower addition to fit within Clayton's intentions while meeting today's building codes."

To accommodate the massive weight of the bells as well as the new 224-ft. west tower itself without adding stress to the original 106-year old building, Architexas and the engineers determined that the structure would have to be supported from the ground up. "The base of the tower is about 20-ft. square, with 28-in.-thick load-bearing masonry walls on a corbelled masonry foundation extending 4 ft. below grade," Skotnicki explains. "The design team decided that



Nicholas Clayton's 1896 drawing is one three designs he created for the towers. It was selected by Architexas as a model for the new tower and was adapted to accommodate the installation of the massive 49,000-lb. carillon. *Historic drawing: courtesy of the Rosenberg Library, Galveston, TX*

the new tower extension should stand independently from the existing masonry base, but appear to be part of the existing structure, as if the building had been originally completed all the way up to the spire and cross."

These goals were accomplished by excavating a 35-ft. square around and inside the existing structure to the bottom of the footings. Four piers, each 18 in. in diameter, were then drilled to a depth of 56 ft., protruding 8 ft. into the underlying limestone substrata. Two 24x54-ft. slots were cut through the corbelled footings and each face of the tower base. Reinforcing steel cages made up of #11 rebar were placed around and through the existing masonry footings. Seven thousand pounds of concrete were then poured, integrating

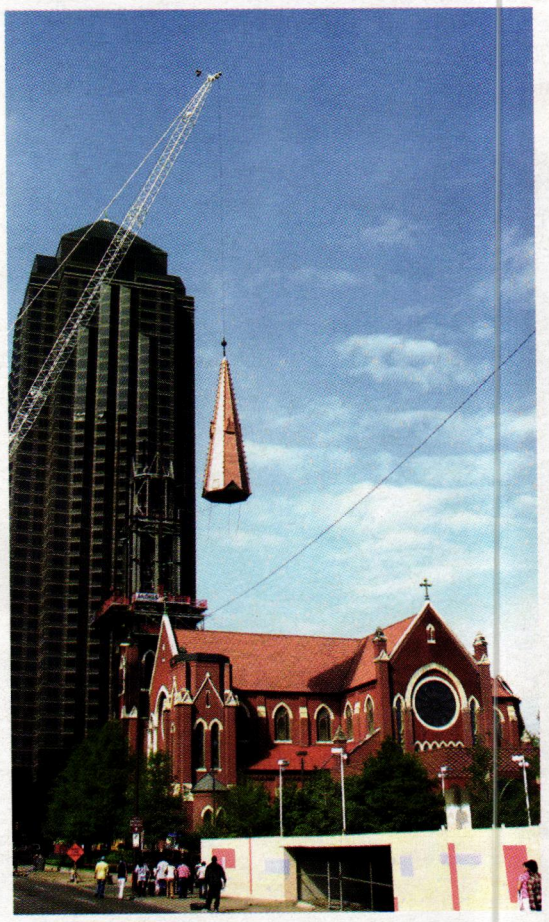
Seven thousand pounds of concrete were poured into the foundation, integrating the old and new foundations. *Photo: courtesy of Architexas*

The steel frame for the tower was inserted into the original historic walls, piece by piece. The fourth section reached above the original walls of the historic tower base. *Photo: courtesy of Architexas*

the old and new foundations. The resulting pad contains 90,000 lbs. of steel and was designed to carry four 14-in. square columns to support the new tower extension above.

Once the foundation was in place, the steel inner frame was inserted into the tower, which had been gutted. The roof was removed and prefabricated steel structural sections were hoisted, one at a time, over the top of the existing masonry walls and lowered carefully down into the tower. There was only ½-in. clearance from the existing walls.

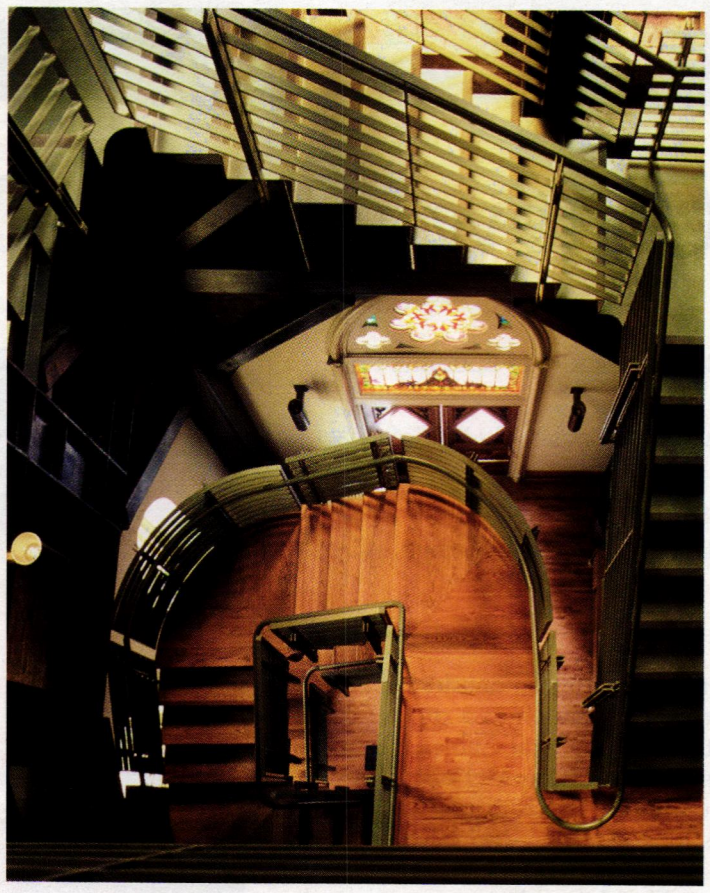
The fourth of these sections brought the structural frame above the existing masonry and the fifth section formed the 36-ft.-tall bell chamber. The final prefabricated steel section was erected and welded on the plaza and hoisted as one assembly to form the dormer level. The last piece was the aluminum-framed, copper-roofed steeple. It was constructed offsite by Campbellsville Industries of Campbellsville, KY, shipped to the site and lifted into place.



After the steel frame was built and the cladding was added to the top portion of the spire, copper steeples were lifted to the top of each tower. *Photo: courtesy of Architexas*

"Most of this work was done at night because we weren't allowed to close any of the major streets during the day," says Richard Martratt, project architect, Architexas, "and we had to use large cranes to lift the sections into place. After each section was lifted into place in the tower, we would work on it for a few weeks. It took quite a while to weld those sections in place and to get ready for the next ones. Plus you had the interior elements – several bell levels and various support brackets and also the stair itself – that had to be welded in place."

Hoisting the bells into place was another challenge. The contractor, Andres Construction Services, Dallas, TX, used a combination of systems. A hydraulic platform scaffold system capable of supporting 16,000 lbs. with a climbing speed of 100 ft. every 50 min. did part of the heavy lifting. The platform scaffold was also equipped with a material hoist with a lifting capacity of 2,500 lbs.



Far left and left: It was quite a challenge to hoist these bells into place, with the largest and highest bells located 146 ft. above street level. The 49-bell carillon system weighs 49,000 lbs. and includes 45 static bells, the largest weighing 2,200 lbs., and four swinging bells, the largest weighing 9,400 lbs. A winding staircase lends to the carillon and clavier. *Photos: far left, courtesy of Architexas; left, Carolyn Brown, Dallas, TX*

and a travel distance of 80 ft. A cantilevered trolley beam and pneumatic trolley hoist with a lifting capacity of 10,000 lbs. was installed above the upper bell chamber. These systems were used together to carefully lift the bells into place in the two bell chambers.

"Hoisting the bells was difficult because we had to snake them through the steel structure," says Martratt. "Lifting a nine-ton bell and snaking it through the structure is quite a feat. We built some lifts on the outside of the tower that were used to transport them to a certain height, then we used a system of levers and pulleys to get the bells into exact position." This work could be done during the day because it didn't require cranes and the streets didn't have to be closed. Those same platforms were used when cladding the building and doing other exterior construction.

At one point, Martratt points out, the vibration of the bells was a big issue. "When we got the bells installed and began to ring them for the first time, the whole frame began to sway," he says. "We were getting about ¾-in. vibration. We got the engineers involved again to take another look at it. We figured out that the frequency of the vibration was the same as the steel frame, so it excited the steel frame, causing it to move when the bells rang."

The problem solved itself when the building was loaded with masonry. The primary materials used to clad the new section of the spire were red hard-fired brick, cast stone and copper. These were selected to blend with the historic structure, according to Skotnicki, "to fit seamlessly into the historic building. It was a bit of a challenge to match the original brick, but we came close."

The shorter tower was a simpler project. It also had a hipped roof, which was removed and replaced with a copper-roofed steeple from Campbellsville Industries. This added almost 41 ft. to the tower, bringing the height to 102 ft. "We did some exterior repair work, but we didn't have to do the foundation work because the tower was not increased in size," Firsching notes.

The Cathedral Santuario de Guadalupe has finally taken its rightful place in the Dallas skyline. *Photo: Carolyn Brown, Dallas, TX*

Construction started in June of 2005 and was completed in November of 2005 without disrupting the normal services and operations of the cathedral. The new spire more than doubles the height of the building and it finally fulfills the goals of the original design of the cathedral. In addition, it allowed the church to add the massive carillon, fulfilling the diocese's goal of bringing a level of prominence to the cathedral. Skotnicki points out that this is the largest carillon (by one bell) in Dallas and the second largest in Texas, second only to the one at the University of Texas in Austin.

The Cathedral Guadalupe serves one of the largest cathedral congregations in the United States, with an average Sunday mass of almost 10,000 parishioners. The new towers are just one phase of a comprehensive set of improvements being undertaken for the cathedral and its surrounding buildings and plazas. "We began working with the diocese in 1995," says Skotnicki, "when Architexas completed a master plan prioritizing the work into manageable phases that minimize the impact of construction on daily services."

Previous work included the integration of new mechanical systems into the building, redesign of the altar and exterior restoration of the building's two primary entry bays. Future phases will focus on the plazas, restoration of the sanctuary, and completion of the exterior restoration.

"This is the most dramatic of the work so far," Skotnicki says. "Nicholas J. Clayton would have been very happy with the new addition. His grandson and great grandson participated in the groundbreaking and the dedication. Everyone is happy with it." – *Martha McDonald*

One of the last steps in the restoration was lifting the smaller spire to the top of the shorter tower. *Photo: courtesy of Architexas*

Gateway to the Past

Project: McKean Gateway & Marshall and Vera Lea Rinker Building, Rollins College, Winter Park, FL

Architect: Chael, Cooper & Associates P.A., Coral Gables, FL; Maricé Chael, AIA, principal in charge

General Contractor: Lamm & Co., Orlando, FL

Stonework (McKean Gateway Arches): Barbara Tattersfield Design, Winter Park, FL

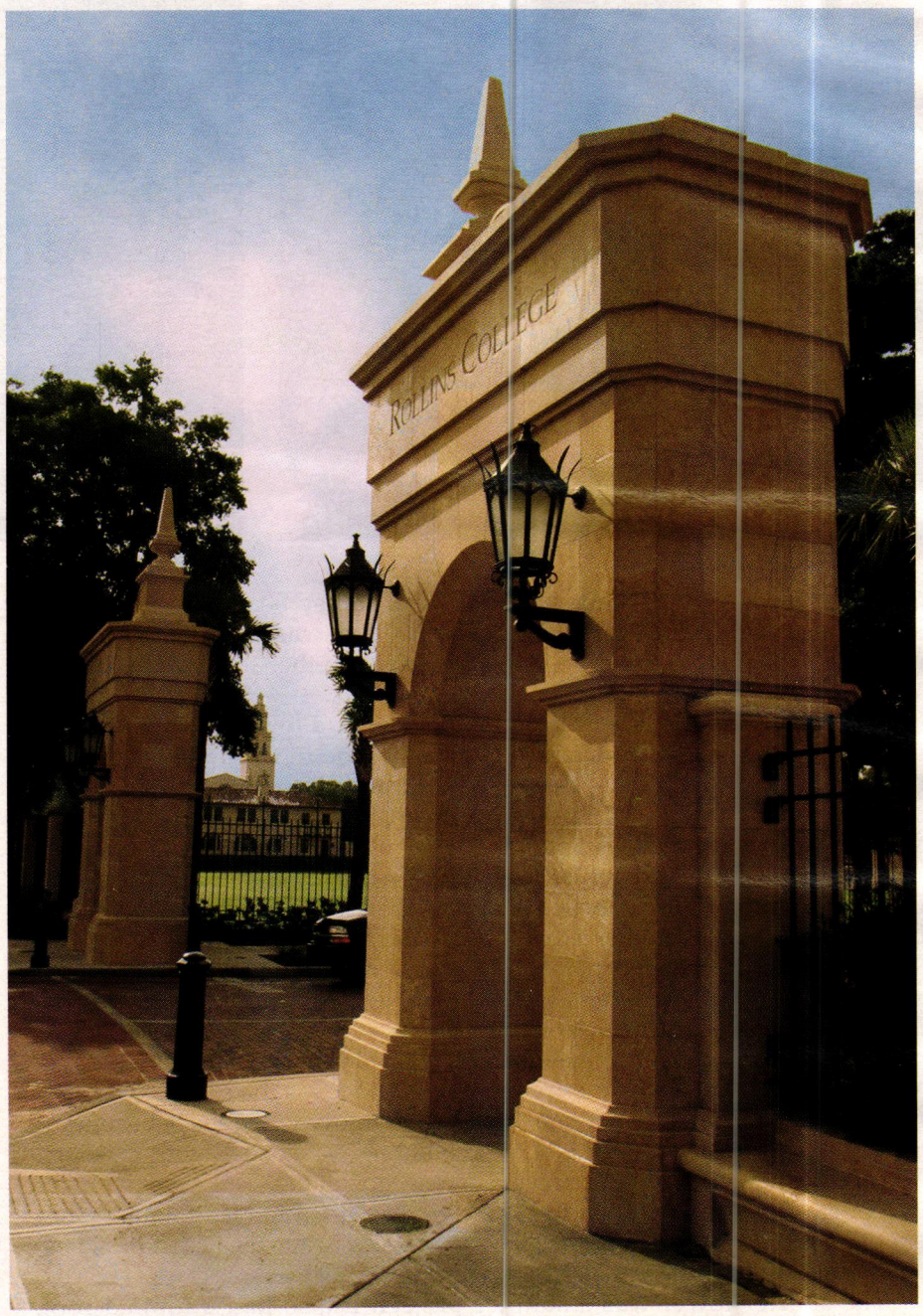
When Rollins College sought to transform the nondescript main entrance of its Winter Park, FL, campus into a more formal public face for the school, it turned to Coral Gables, FL-based Chael, Cooper & Associates. The resulting McKean Gateway and Rinker Building both reflect the college's predominant Spanish-Mediterranean architecture and realize its long-standing desire for a formal entrance to its campus.

Rollins was founded in 1885, making it Florida's oldest recognized college. Located a few miles north of Orlando on the shores of Lake Virginia, its 70-acre campus is lined with oak trees and characterized by stucco and Spanish tile-roofed buildings inspired by the work of renowned Florida architect Addison Mizner. Notable additions over the years have included Ralph Adams Cram's Knowles Chapel (1932), James Gamble Rogers' Olin Library (1986) and the Cornell Campus Center (1999), which was designed by Boston, MA-based Shepley, Bulfinch, Richardson & Abbott. For years, the college's de facto main entrance – where the campus meets Winter Park's main north-south thoroughfare, Park Avenue – had been identified by nothing more than a low marker that college Vice President and Treasurer George Herbst describes as "resembling a tombstone."

So, in 2002, in conjunction with a city-wide beautification program that included the enhancement of Park Avenue – which was being orchestrated by the town-planning firm with which Chael, Cooper & Associates is affiliated, Dover, Kohl & Partners – Rollins set out to turn its inconspicuous front door into a grand entryway.

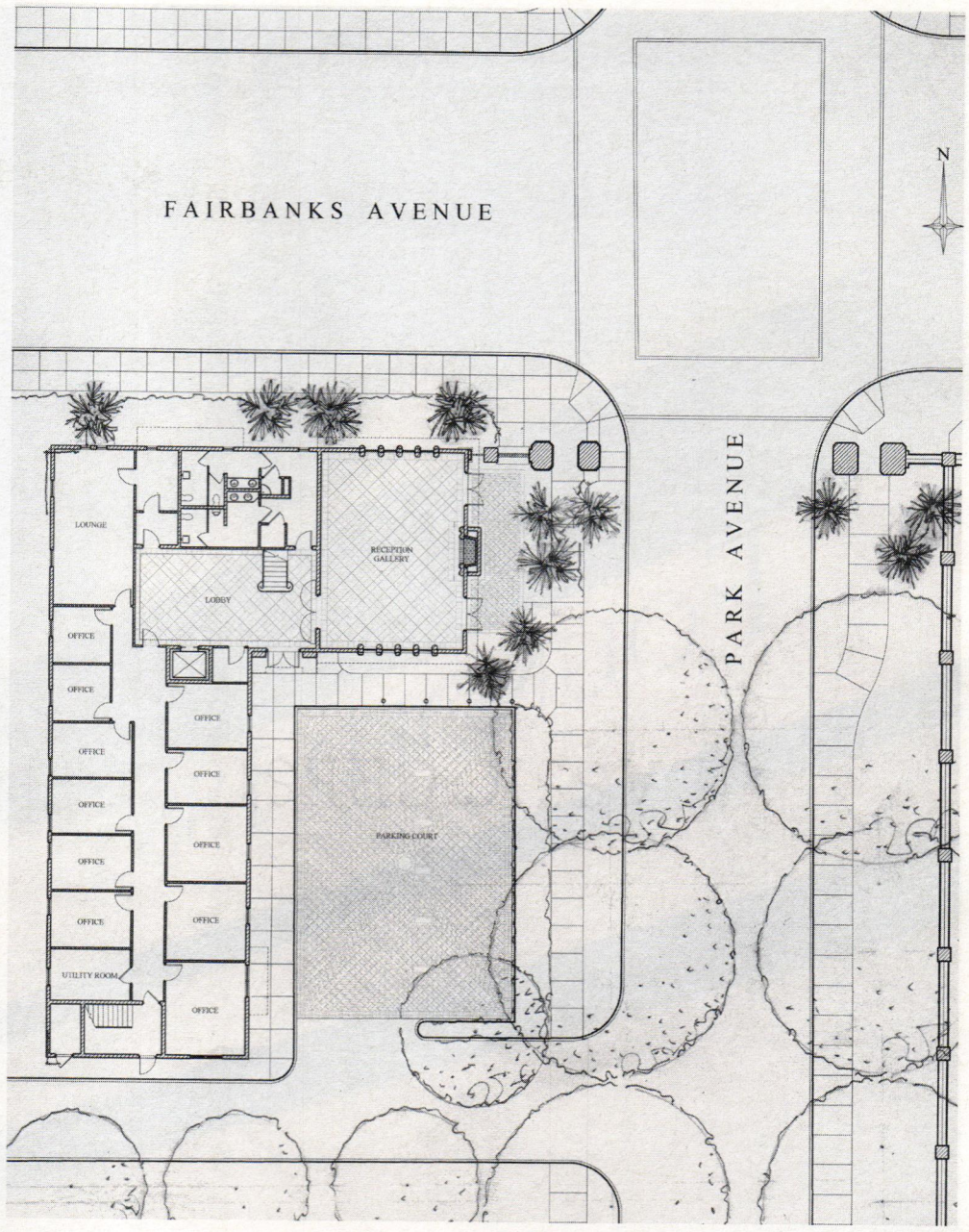
"The college, throughout all its years, has never had a formal entrance," says Herbst. "So this project was the result of our desire to have an appropriate point of arrival at the college. We considered numerous options. Years and years ago there was some thought that it should arch over the roadway, but that just seemed inappropriate. Then the question becomes, 'What do you do on either side?'"

In order to come up with a satisfactory answer to that question, Chael, Cooper & Associates presented the college with multiple design concepts, including obelisks, trellised pavilions and a three-story building with a corner tower. "Our approach was to give them several alternatives," says Maricé Chael, AIA, principal in charge. "It began with two small obelisks



Thanks to a recent design by Coral Gables, FL-based Chael, Cooper & Associates, Rollins College finally has a main entrance befitting the Spanish-Mediterranean elegance of its Winter Park, FL, campus. *Photo: courtesy of Chael, Cooper & Associates*

Along with the McKean Gateway arches, the project also included the construction of the adjacent 10,000-sq.ft. Marshall and Vera Lea Rinker Building, which houses the college's admission and financial aid offices. *Photo: © Corey Weiner, redsquarephoto.com*



Adjacent to the westernmost arch, the Rinker Building commands the intersection of Fairbanks and Park avenues, creating a well-defined gateway to the college. *Drawing: courtesy of Chael, Cooper & Associates*

and ranged to the more ambitious, which was a substantial building on the corner. What actually came out in the end was a hybrid of those two ideas."

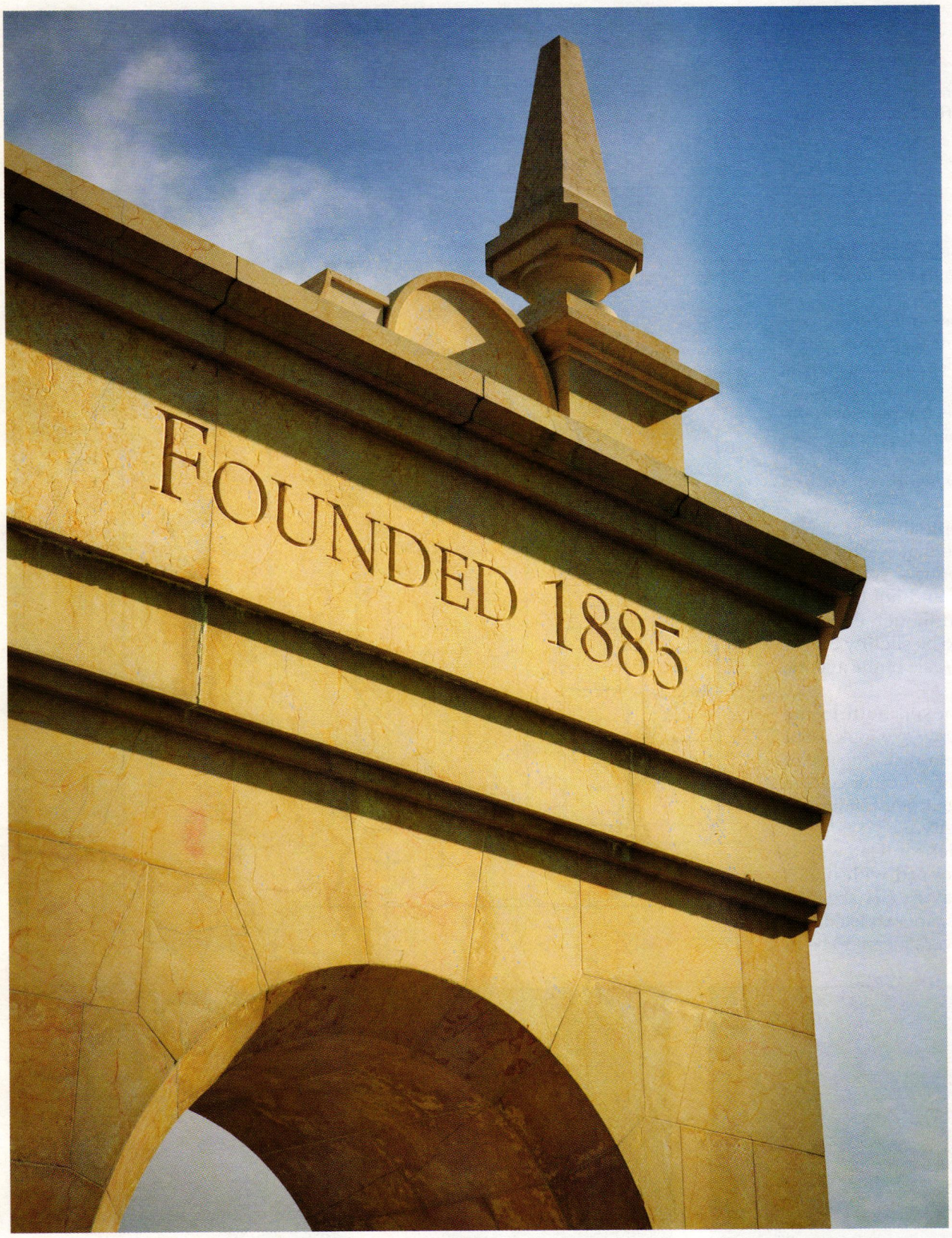
After reviewing the architect's proposals, Rollins opted for a pair of triumphal arches and an adjacent building to house administrative offices. In order to ensure public consensus for the design, the college went so far as to commission a full-size model of one of the arches. "That was quite fascinating for people – that a college would actually construct in advance, out of wood, what it was going to build," says Herbst. "A few things came from that – we set it at a slightly different location and we increased the size a bit, because it was difficult for two people to walk through the arch."

"From looking at drawings alone, a lot of people thought it was too big," says Chael. "What we wanted was a scale that wasn't overpowering but still terminated the axis to Park Avenue – yet intimate enough so that two people could walk side by side and not feel overwhelmed. The initial model made it clear that even though everyone thought it was overly monumental, it actually had to be slightly bigger in order to feel right – taking into consideration the scale of the avenue and the pedestrian scale."

In conceiving the arches, the design team looked both to the Rollins campus and to campuses beyond Winter Park. "We took it out of the architectural context of the campus – the use of finials, the use of scrolls," says Herbst. "But we also looked at a number of other college campuses – one similar to this, although it's made out of a totally different stone, is on the campus of the Indiana University."

Like Indiana University's Sample Gates, the McKean Gateway is composed of two asymmetrical triumphal arches topped with finials highlighting the center axis. The McKean Gateway finials are also abutted by scrolls that, moving away from the finials, are extracted to a single line. The color and dimensions of the marble were meant to be in

Left and above: The Rinker Building features stucco walls, a Spanish-tile roof, Romanesque windows and marble columns. *Photo: © Corey Weiner, redsquarephoto.com*



keeping with the stone of Knowles Chapel. Stonework was provided by Barbara Tattersfield Design, of Winter Park. Each arch is adorned with two light fixtures from Ball & Ball Lighting, of Exton, PA.

The arches were completed in the first phase of construction. The second phase turned the focus to the Rinker Building, which would rise on a site adjacent to the McKean Gateway that had previously been occupied by an automobile repair shop. The biggest challenge in its design was a limited timeframe; the program and design had to be produced within a four-month period. "Marshall and Vera Lea Rinker made a quick completion date imperative for giving the college the funding," says Chael. "In order to do the quick turnaround, I did a lot of the detailing myself and incorporated the hand drawings into the more technical CAD drawings. Based on my hand drawings, I worked together with Castlestone [Orlando, FL], which produced 3-D drawings as their shop drawings. It was done in a very compressed period of time."

Today, the 10,000-sq.ft. Rinker Building houses the school's admission and financial aid offices. Laid out in an L-shaped plan, it features stucco walls, a Spanish-tile roof and Romanesque arched windows. The building's decorative cast-stone elements were fabricated by Castlestone. Along with the arches, the Rinker Building acts as the gateway to the college – where prospective students get their first impressions of the college. So far, thanks to Chael, Cooper & Associates, those impressions have been decidedly positive. – *Will Holloway*

Left: The marble McKean Gateway arches each feature a finial that highlights the center axis of Park Avenue and a scroll; both elements were designed to fit the architectural context of the campus. *Photo: © Corey Weiner, redsquarephoto.com*

Below: As a result of this project, the intersection of Fairbanks Avenue and Park Avenue in Winter Park has undergone a significant transformation. The McKean Gateway arches now flank Park Avenue at the previously inconspicuous entrance to Rollins College, while the adjacent Rinker Building stands on the site of a building that formerly housed an automobile repair shop. *Before photo: courtesy of Chael, Cooper & Associates; after photo: © Corey Weiner, redsquarephoto.com*

Triumphal March

Project: Millennium Gate, Atlanta, GA

Client: National Monuments Foundation; Rodney Mims Cook, Jr., Atlanta, GA, president

Architect: Robert Adam Architects, Winchester and London, U.K.

Landscape Architect: Tunnell & Tunnell, Atlanta, GA

Interior Designer: Henrietta Spencer-Churchill, London, U.K.

Architect of record: Collins Cooper Carusi, Atlanta, GA

Contractor: Hardin Construction, Atlanta, GA

Sculptor: Alexander Stoddart, Paisley, Scotland

Engineers: Jordan, Jones & Goulding, Atlanta; MACTEC, Alpharetta, GA

Foundry: Morris Singer, Hampshire, U.K.

Ground at a downtown Atlanta, GA, brownfield is slated to be broken this summer for the nation's largest Classical monument since Jefferson's domed colonnade opened on the Washington Mall in 1943. At the Atlanta ensemble, called the Millennium Gate, two bronze Greek goddesses already rest on pylons. Between them will soon rise a limestone arch and four allegorical bronze figures with iconography summarizing the past 2,000 years of human aspiration and peaceable achievement.

Bringing forth this rare Classical landmark has required years of negotiation and collaboration among architects, engineers, landscape architects, developers, donors, city officials and the Scottish sculptor Alexander Stoddart. Orchestrating the players is Classical designer and philanthropist Rodney Mims Cook, Jr.

The pylons flank a 150-ft.-wide avenue and help ennoble a 138-acre brownfield development that has replaced a shuttered steel mill. At the feet of the Greek goddess of Justice, Dike (DEE-kay), stands Harpocrates, the shushing god of restraint of judgment. Dike wears an Egyptian headdress and holds a sistrum, a sacred rattle used by priestesses devoted to Isis, the first goddess said to represent Justice.

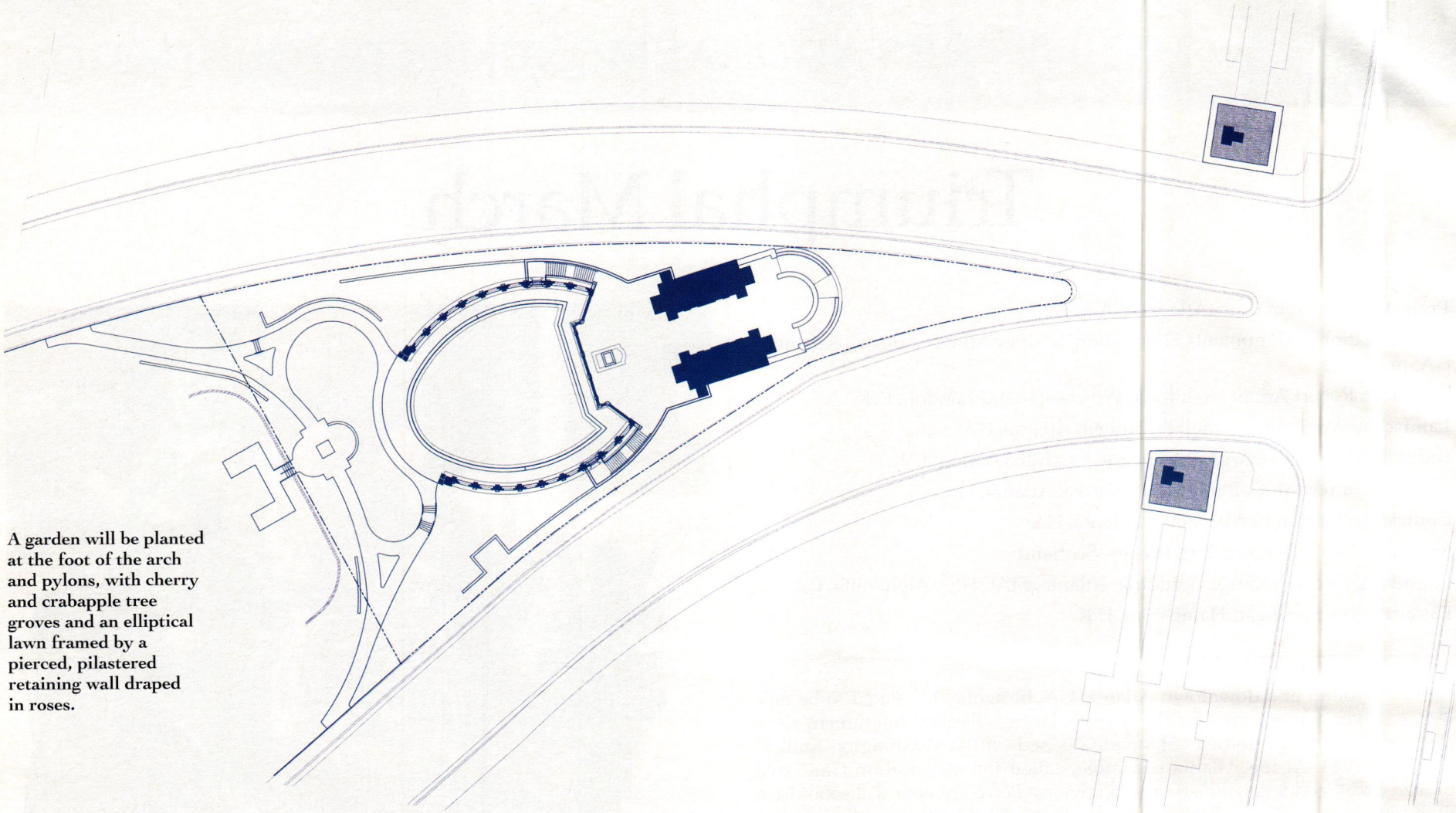
Bronzes for the Millennium Gate were toured across Georgia atop a Percheron-drawn caisson. Governor Sonny Perdue (front, in dark suit) led the final Atlanta leg of the trip, accompanied by the Honorable Rodney M. Cook, Sr., and Susan Eisenhower (right), an honorary board member of the National Monuments Foundation. Behind Ms. Eisenhower stands Rodney M. Cook, Jr., patron of the Millennium Gate, Palladio Award winner, and founder and head of the National Monuments Foundation. *All photos: courtesy of the National Monuments Foundation*

As the founder and president of an Atlanta nonprofit called the National Monuments Foundation (NMF), Cook has been shepherding the project for seven years. Originally conceived for a barren traffic island in Washington, DC, the gate's plan has been gracefully adapted to its Atlanta berth, largely because of Cook's watchful eye and impassioned commitment. "He has tremendous reserves of compassion and kindness, and he never gets discouraged, he keeps going great guns," Stoddart says. "Rodney is in fact officially a miracle."

Cook has deep Atlanta roots. Among his Confederate and Union-sympathizing ancestors are two Atlanta mayors, both design patrons. In the 1850s, Mayor John Mims commissioned Atlanta's first citywide map, and in the early 1900s, Mayor Livingston Mims funded major park expansions including an Olmsted Brothers' scheme. Cook's bloodlines and in-laws also include clients of Atlanta's renowned Classical architect Philip Trammell Shutze. As a teenager in the 1970s, Cook led preservation picketers who saved the city's Fox Theatre, a 1920s Moorish fantasy then slated for demolition. Cook was a founding trustee of the Prince of Wales's Foundation for Architecture, which helped organize a competition for a monument commemorating Atlanta's hosting of the 1996 Olympics. On an Atlanta traffic circle stands the competition winner: bronze atlases and limestone columns, designed by Russian-born architect Anton Glikin.

Locals determinedly cross busy lanes to reach the sculpture. "People leave bouquets, flags, and candles there whenever there's a world tragedy to mourn," Cook says. "The monument speaks to their souls." Atlanta can use more such meditative gathering places, he adds, partly because so few were built there in the late 19th and early 20th centuries: "Citizens here were still recovering from the Civil War and rebuilding their homes, while the rest of the country was benefiting so greatly from the Beaux-Arts City Beautiful movement."

Atlanta's Millennium Gate arose out of a now-stalled endeavor to ennoble Washington, DC's Commodore Barney Circle, a snarl of traffic islands and highway ramps. In 2000, Cook organized an international monument competition, open to architecture students and recent architecture school graduates and sponsored by the University of Notre Dame. The jurors were Léon Krier, Elizabeth Plater-Zyberk, Robert A.M. Stern, Carroll William Westfall, and Michael Dennis. Daniel G. Parolek (of Opticos Design,



A garden will be planted at the foot of the arch and pylons, with cherry and crabapple tree groves and an elliptical lawn framed by a pierced, pilastered retaining wall draped in roses.

Berkeley, CA) won first place among ten winners. The other nine were Lisa Schmitt Bergman, Marianne Cusato (who recently designed a prototype cottage for Hurricane Katrina recovery zones), Olympics monument designer Anton Glikin, Shelley Hoenle, Luis Pedro Vásquez Lobos, Abdul Muzikir, Silvia Neri, Milan Petkovic and Joseph Matthew Smith. They participated in a charrette (except for Vásquez Lobos, a Guatemalan who was tragically killed in a car accident), and their collaboration led to a four-sided arch that politicians praised, muddled over and then shelved.

Rental and condo apartments overlooking the gate site are being snapped up. Alongside the goddess of Peace, Eirene (pronounced eye-REEN-ee), stands Ploutos, the god of wealth and bountiful harvests.

Cook promised the city that his group would raise the entire $50-million construction budget, but still couldn't convince bureaucrats to move forward. He found far more receptive audiences in Atlanta's private sector, notably Jacoby Development. The company has cleaned up 138 downtown acres, the former home of Atlantic Steel, to make way for $2 billion worth of offices, residences, stores and hotels. A walkway elevated across a 21-lane interstate connects the property, called Atlantic Station, to the rest of the city. A few industrial relics have been preserved onsite, including a sooty smokestack. Cook persuaded Jacoby to reserve an acre for a Classical monument that would set a sophisticated tone for the development, while eye-catchingly terminating an avenue vista and providing an irresistible gathering spot.

The parkland, along a 150-ft.-wide thoroughfare, cost Jacoby some $1.25 million to give away. The NMF is raising its own $18 million to build the Gate. (On the foundation board serve such luminaries as Colin Amery, Richard H. Driehaus, Susan Eisenhower, Anne Randolph Hearst, Priscilla Roosevelt, Thomas Gordon Smith, and Tom Wolfe.) Cook brought in Hugh Petter, a director at Robert Adam Architects, to adapt the Barney Circle design into a 70-ft.-tall arch flanked by 24-ft.-tall pylons. Petter was one of three scholars at the Prince of Wales's Institute who'd helped Cook organize the Olympics-monument competition, along with Dr. Richard John and Victor Deupi (now the Arthur Ross Director of Education at the Institute of Classical Architecture & Classical America).

The arch's many precedents, Petter explains, include London's Wellington, New York's Washington, Paris's Carrousel near the Louvre, Munich's Siegestor and Rome's Titus. Petter, along with local architect Sandy Cooper of Collins Cooper Carusi, chose Indiana limestone for the cladding. "At Bybee Stone," Cooper recalls, "we looked at buff and variegated samples, and the variegated stood out because of the striations and the sense of depth." The pylons and arch will have concrete substructures, yet not look veneered. "We'll use huge blocks," Petter says, "so it will appear massive, enduring and timeless."

Stoddart's sculptures will mark the past two millennia of time's passage. On the pylons already stand figures of the Greek goddesses of Peace, Eirene (pronounced eye-REEN-ee), and Justice, Dike (DEE-kay). Each weighs 1.5 tons and was cast in 360 moulds. Eirene sits behind Ploutos, the god of wealth and bountiful harvests, and at Dike's feet stands Harpocrates, the shushing god of restraint of judgment. Dike wears an Egyptian headdress and holds a sistrum, a sacred rattle used by priestesses devoted to Isis, the first goddess said to represent justice.

The Morris Singer foundry in Hampshire, England, shipped the eight-ft.-tall ladies to Savannah last fall. From there, Melanie Faser, the project coordinator for the NMF, arranged for a Percheron-drawn caisson to carry them to Atlanta. Brass bands and bagpipers led the way. Georgia Governor Sonny Perdue (a Republican) and Congressmen Jim Marshall (a Democrat) and Jack Kingston (a Republican) were among the notables driving the caisson.

Stoddart is now sketching the first of four female figures for the arch base. Each will represent 500 years: the Hellenistic period, the Middle Ages, the Renaissance and modern times. They will stand 14½ ft. tall, just shy of the roof beam in Stoddart's studio in Paisley, Scotland. The Hellenistic woman will carry a broken column, "signifying the moment when Classical culture came to a rich and virtuosic maturity," the sculptor explains. Around her will also be arrayed a model of Alexandria's Pharos (referring to the empire's extensive trade, and serving as a sign of hope) and two scrolls symbolizing the era's destroyed libraries and lost knowledge. Stoddart has not yet finalized the other three designs, but he expects to evoke everything from the first charitable hospitals and first declarations of universal enfranchisement to the ambitions of space exploration.

The Morris Singer foundry in Hampshire, England, shipped the bronzes to Savannah, GA, where they were loaded onto the caisson for the road trip to Atlanta.

The backdrop of Atlanta high rises somehow suits Stoddart's bronzes. "We found the statues' scale is even more impressive than we expected," Petter says. "They really hold their own in the context. And the arch will be as tall as the smokestack." Stoddart adds that Eirene and Dike "look glorious in that Atlanta sun, especially in the morning. Sculpture wants a strong, high-up, raking light."

A park will be planted at the ladies' feet, designed by landscape architect Spencer Tunnell, of the Atlanta firm Tunnell & Tunnell. An elliptical lawn will be framed by what Tunnell calls "a pierced retaining wall with pilasters and blind arches forming an architectural container, and completely festooned in climbing roses. We're also planting crabapple and cherry trees, to create the same lushness and abundance you see in gardens in Rome, which has a similar climate to Atlanta's." The groves will eventually serve as waiting areas for visitors entering the arch.

Galleries inside will cover Atlanta history, and conference rooms and the roof terrace will be rentable for events. Cook has commissioned a series of period rooms as well, either copied from landmarks or fashioned from architectural salvage. Gate-goers will be able to stroll through a forest of Corinthian columns that held up an 1810s stairwell in Savannah, a 1920s Italian Baroque living room designed by Shutze for the family of Mrs. James D. Robinson, Jr. (Cook's grandmother-in-law), and a 1930s paneled office used by Atlantic Steel industrialist Thomas K. Glenn.

The arch is scheduled to open in the fall of 2007 with the names of all contributors etched into its flanks, including the Barney Circle competition finalists. Cook is already planning his next Atlanta project. He won't reveal the site, just the program: "a monumental column on the scale of Nelson's or Trajan's, to commemorate Georgia's founder, James Oglethorpe." Cook is also researching potential parade routes for Stoddart's arch figures, which will arrive annually over the next few years. Eirene and Dike, Cook says, "look absolutely majestic, even better than we'd imagined. They're exactly what's been sorely needed in Atlanta, and they look perfectly appropriate. Even in this Modernist-inclined city, people are telling us they're thrilled to have something this magnificent built, finally." – *Eve M. Kahn*

The bronzes' Scottish sculptor, Alexander Stoddart, wore a kilt (front right) and was accompanied by bagpipers in the parades. On the caisson, the passengers include Sam Candler, the dean of the local Episcopal cathedral; Robert Willis, the dean of Canterbury Cathedral in England; and Jim Jacoby, the developer of Atlantic Station.

Dike and Harpocrates were gently winched into place in October 2005.

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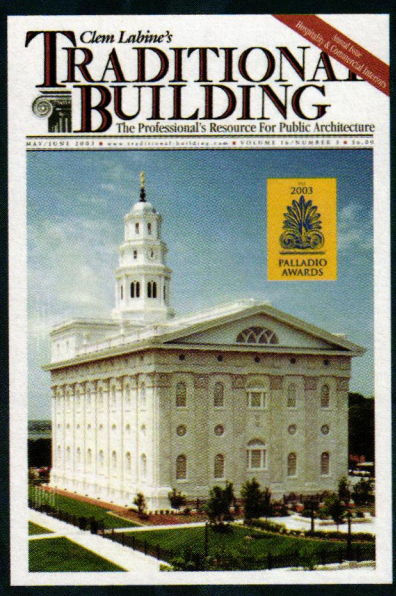

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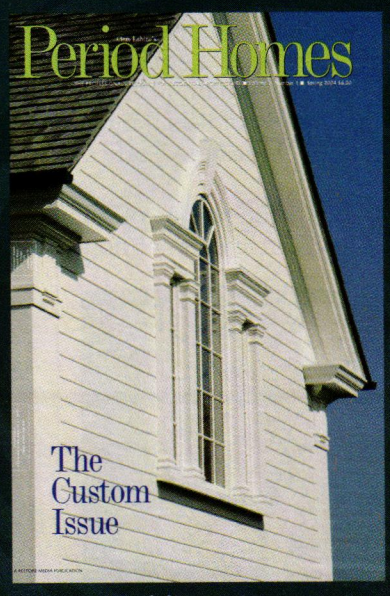

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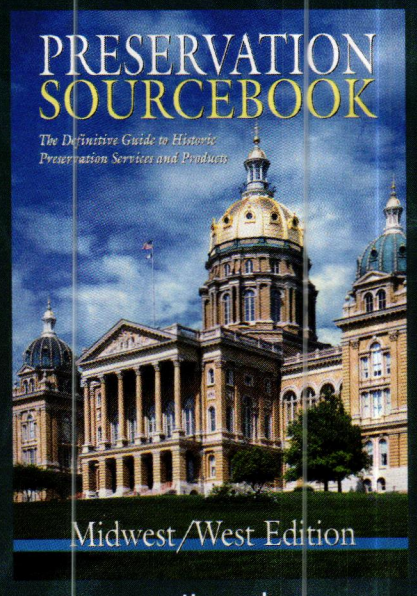

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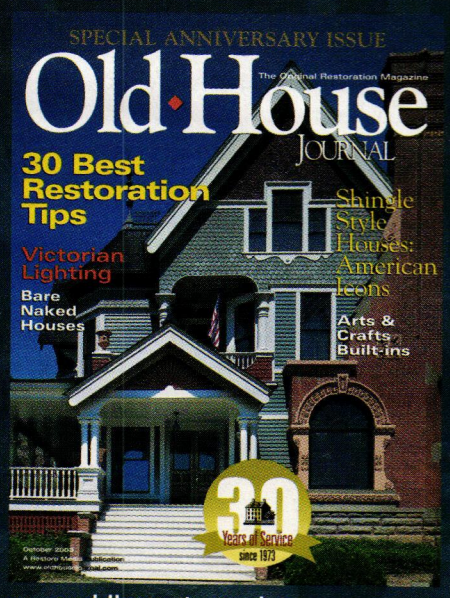

www.oldhousejournal.com

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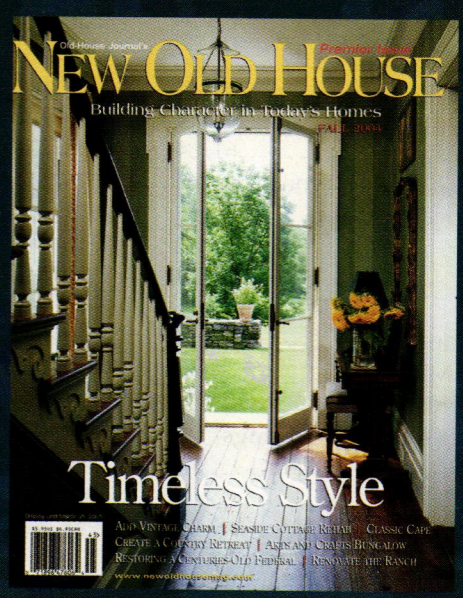

www.newoldhousemag.com

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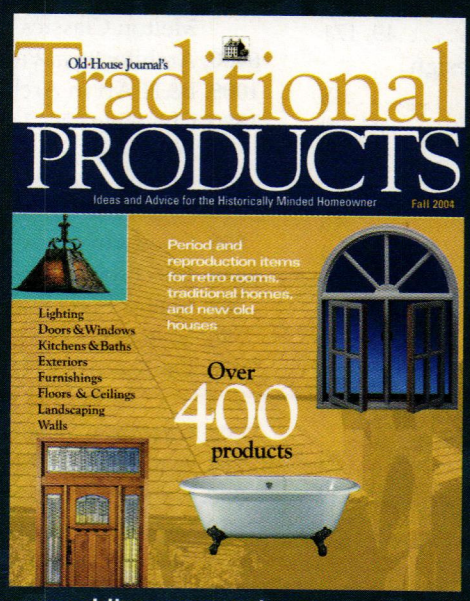

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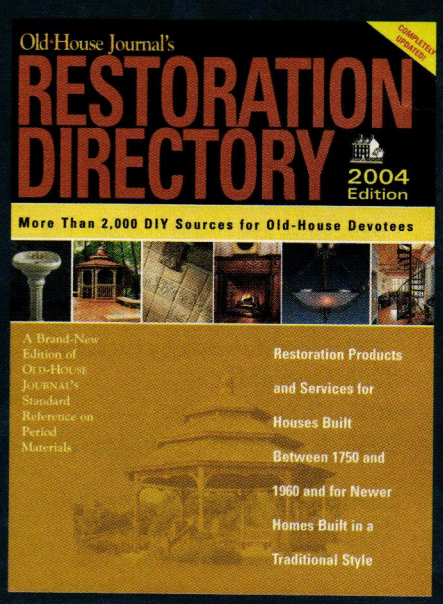

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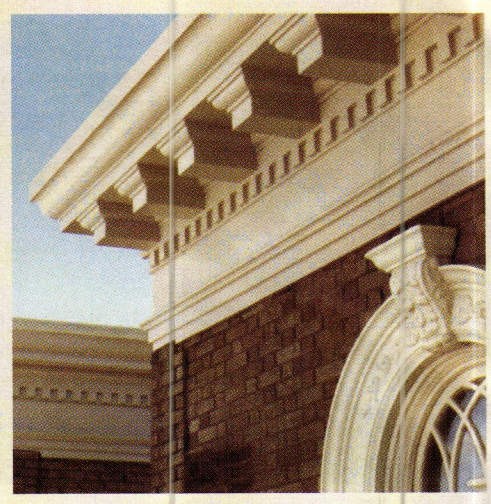

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www.abraingutters.com
Anaheim, CA 92806
Manufacturer of gutter & downspout products: bronze, aluminum, steel & copper; specialty chemicals & fasteners; installation services.
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www.clubfendersusa.com
Linden, VA 22642
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Write in No. 1667

American Tin Ceiling Co.
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www.americantinceilings.com
Bradenton, FL 34203
Supplier of tin ceiling panels: SnapLock system screws directly into drywall, drop-in & screw-in installation; many styles; molding; 45 colors.
Write in No. 1822

Antique Lumber Corp.
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www.antiquelumber.net
Chelsea, MA 02150
Supplier of vintage wood: antique & salvaged timbers & boards; antique wood flooring; random-width & wide-board flooring.
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This hand-carved accent molding by Outwater was laser-cut from 1/4-in. Baltic wood.

Architectural Products by Outwater, LLC
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www.outwater.com
Bogota, NJ 07603
Manufacturer of 40,000+ decorative building products: architectural moldings & millwork, columns, capitals, wrought-iron components, balustrading, door hardware, lighting, ceiling tile, furniture & cabinet components & more; free 1,100-page catalog.
Write in No. 1088

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www.architecturalsalvage.com
Louisville, KY 40202
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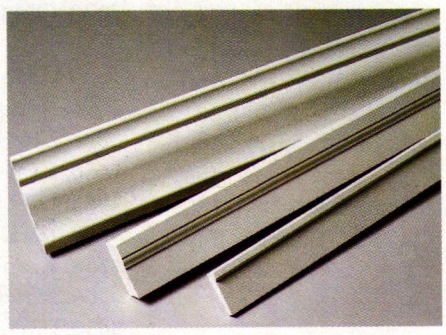
Write in No. 1774

Atlas Metal Sales
800-662-0143; Fax: 303-623-3034
www.atlasmetal.com
Denver, CO 80204
Supplier of silicon bronze: casting alloys; sheet & plate; flat bar, square & round rod; square & round tubing; welding rod & wire; free brochure.
Write in No. 1784



The Crown Mould, Brick Mould and Drip Cap are some of AZEK Millwork's most popular ready-to-install profiles.

AZEK Trimboards
877-275-2935; Fax: 570-346-5080
www.azek.com
Moosic, PA 18507
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Write in No. 1428

Bathroom Machineries, DEA
209-728-2031; Fax: 209-728-2320
www.deabath.com
Murphys, CA 95247
Supplier of Early American & Victorian bathroom fixtures & accessories: antique & reproduction clawfoot tubs, high-tank toilets, pedestal sinks, lighting, door & cabinet hardware, mirrors & many one-of-a-kind items.
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Bathroom Machineries has an extensive line of pedestal sinks and restored faucets and valves.

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www.bluestone.com
Hancock, NY 13783
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Write in No. 1566

Bilco Co.
203-934-6363; Fax: 203-933-8478
www.bilco.com
New Haven, CT 06505
Manufacturer of basement access doors: easy to operate; steel.
Write in No. 1811

Brandon Industries, Inc.
800-247-1274; Fax: 972-542-1015
www.brandonindustries.com
McKinney, TX 75069
Manufacturer & distributor of Classical ornamental metalwork: lampposts, wall sconces, deck mounts, signage & plaques, mailboxes & more in aluminum.
Write in No. 73

Aluminum lampposts from Brandon Industries are available in many traditional styles.

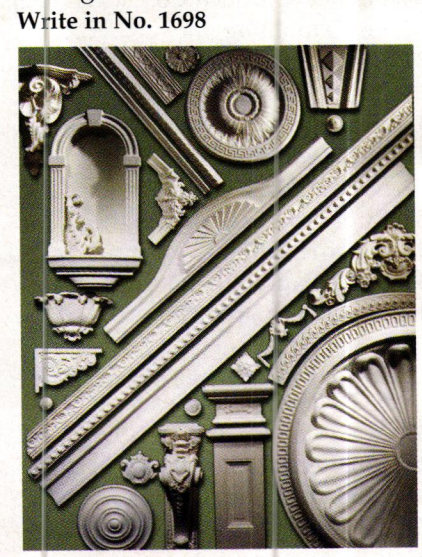
Castle Metal Products
847-806-4540; Fax: 847-806-4541
www.castlemetalproducts.com
Schaumburg, IL 60193
Supplier of ridge vents for slate roofs, sheet-metal flashing & trim: built-in & half-round gutters, leaders, boxes & more.
Write in No. 2901

Cedar Shake & Shingle Bureau
604-820-7700; Fax: 604-820-0266
www.cedarbureau.org
Sumas, WA 98295
Trade association for manufacturers, distributors & installers of Certi-label cedar shakes & shingles for roofing & siding: installation instructions; AIA seminars; fire-retardant & preservative-treated products.
Write in No. 1603

A member of Cedar Shake & Shingle supplied the western red cedar roofing and siding for this waterfront building.

Ceilings Magnifique
318-929-7398; Fax: 318-929-3923
www.ceilingsmagnifique.com
Blanchard, LA 71009
Supplier of decorative polymer products: wall panels, ceiling tile & molding in polystyrene.
Write in No. 1795

Century Architectural Specialties
877-262-1999; Fax: 770-590-3190
www.architecturalspecialties.com
Marietta, GA 30066
Manufacturer of classically inspired molded ornament: crown & cornice molding, door & window surrounds, pilasters, capitals, corbels, ceiling domes & medallions.
Write in No. 1698



Century Architectural Specialties' selection involves a variety of classically inspired interior molded ornament.

Chelsea Decorative Metal Co.
713-721-9200; Fax: 713-776-8661
www.thetinman.com
Houston, TX 77074
Manufacturer of pressed-tin ceiling & wall panels: tin-plated steel has shiny silver finish, can be painted with oil-based paint; 3-, 6-, 12- & 24-in. patterns ranging from Art Deco to Victorian; easy-to-install 2x4-ft. sheets.
Write in No. 190

This 2x2-ft. Victorian-style pressed-tin panel from Chelsea Decorative Metal can be used on walls and ceilings.

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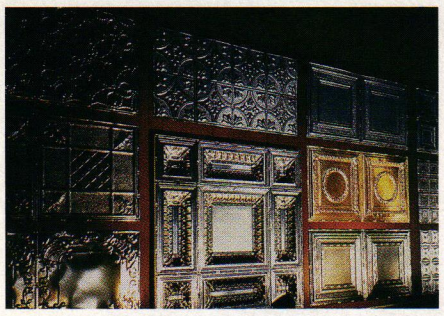


Classic Ceilings offers a selection of pressed-tin ceiling tile in patterns dating from the late 1800s.

Classic Ceilings
800-992-8700; No fax
www.classicceilings.com
Fullerton, CA 92831

Supplier of decorative elements: pressed-metal wall & ceiling tile, tin ceiling panels, cornices & backsplashes; polyurethane ornament; crown molding, medallions, niches, domes, rosettes, door systems; columns; exterior molding.
Write in No. 2400

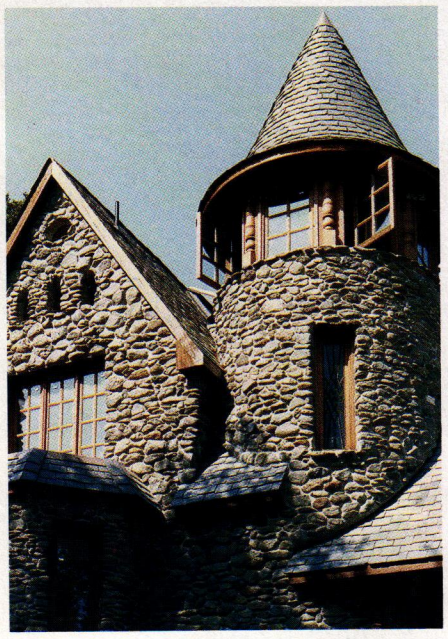
The Regency Collection of cluster mailboxes from Custom Home Accessories includes this period-style model.

Custom Home Accessories, Inc.
800-265-0041; Fax: 916-635-0228
www.mailboxes.info
Rancho Cordova, CA 95742

Manufacturer of metalwork accessories: weathervanes, cupolas, finials, roof caps, mailboxes, lighted address plaques, signs & lampposts; cast aluminum, bronze, brass & copper; custom sizes.
Write in No. 527

Echeguren Slate, Inc.
800-992-0701; Fax: 415-206-9353
www.echeguren.com
San Francisco, CA 94107

Distributor & importer of flooring & roofing slate: from the U.S., Spain, China, Brazil, India & Africa.
Write in No. 7220



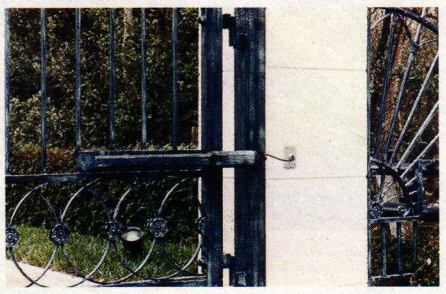
The black slate for the roof on the tower of this building in Northern California was supplied by Echeguren Slate.

European Hardware Company, The
704-658-1016; Fax: 704-998-3558
www.europeanhardware.net
Mooresville, NC 28117

Manufacturer of hardware for shutters, carriage-house & garage doors: forged steel, cast iron, brass, bronze & weatherproof aluminum; design services; U.S. agents for Kirkpatrick Ltd. & Carlisle Brass, Ltd.
Write in No. 1807

FAAC International, Inc.
800-221-8278; Fax: 970-223-2588
www.faacusa.com
Cheyenne, WY 82007

Manufacturer of gate operators: swing-, slide- & barrier-gate systems.
Write in No. 531



Even large, heavy gates can be operated automatically by swing-gate operators from FAAC International.

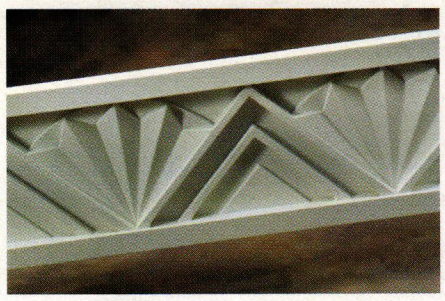
Frank Morrow Co.
800-556-7688; Fax: 401-941-3810
www.frankmorrow.com
Providence, RI 02905

Designer & manufacturer of more than 6,000 ornamental metalwork components: decorative stampings; leaves, flowers, husks, bobeches, motifs & more; solid embossed banding & perforated filigree gallery; steel, brass, aluminum & more.
Write in No. 1220

This angel is one of many new stampings available from Frank Morrow.

Fypon Ltd.
419-445-0116; Fax: 419-445-4440
www.fypon.com
Archbold, OH 43502

Supplier of more than 4,000 molded architectural elements: window features, turnings, columns, brackets & more; urethane & cellular PVC; load-bearing urethane/steel columns, variety of sizes & shapes.
Write in No. 6170



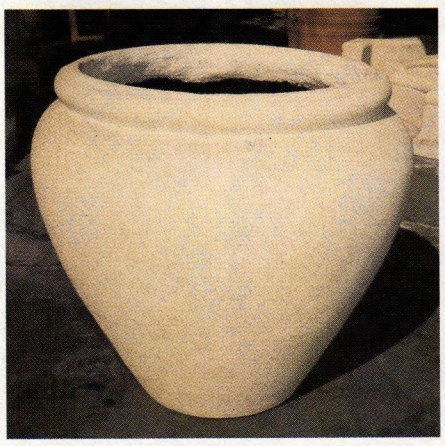
Fypon's Art Deco molding is made of lightweight, low-maintenance urethane.

Gaslite America West
800-833-5998; No fax
www.gaslights.com
Spring, TX 77391

Manufacturer of Colonial-style gas lights & outdoor patio torches: cast aluminum & handmade copper finishes; wall, post, ceiling mount & pillar mount; more than 80 models.
Write in No. 1494

Goodwin International
714-241-0942; Fax: 714-241-1874
3121 S. Oak St.
Santa Ana, CA 92707

Supplier of landscape & garden ornament from around the world: stone fountains, benches, planters, urns & sculpture; sandstone planters & terra cotta; various design styles & sizes.
Write in No. 4160



Goodwin International offers a large selection of planters made of GFRC.

Hanover Lantern
717-632-6464; Fax: 717-632-1903
www.hanoverlantern.com
Hanover, PA 17331

Manufacturer of exterior cast-aluminum lighting fixtures, poles, bollards, mailboxes & accessories: commercial, residential & landscape lighting; 23 different hand-applied finishes.
Write in No. 3440

The Grande Jefferson model #8432BP from Hanover Lantern is available with 20 different hand-applied finishes.

James Peters & Son, Inc.
215-739-9500; Fax: 215-739-9779
www.jamespetersandson.com
Philadelphia, PA 19122

Manufacturer of ornamental gate, shutter & barn door hardware: gate, barn & stable hinges; shutter bolts, shutter dogs & pull rings.
Write in No. 1240

Wrought-iron historical gate hinges are available from James Peters & Son in lengths ranging from 18 to 60 in.

Jansen Ornamental Supply
800-423-4494; No fax
10926 Schmidt Rd.
El Monte, CA 91733

Supplier of ornamental hardware & decorative castings: stampings; paints; tools; lockboxes; cast-iron spears; aluminum cover shoes.
Write in No. 1812

Kasco Marine, Inc.
715-241-8227; Fax: 715-355-9717
www.kascomarine.com
Prescott, WI 54021

Manufacturer of floating display aerators: environmentally friendly way to improve water quality; oxygenation allows for higher levels of beneficial microorganisms that accelerate decomposition.
Write in No. 1493

King Architectural Metals
800-542-2379; Fax: 800-948-5558
www.kingmetals.com
Dallas, TX 75228

Wholesale supplier of ornamental & architectural metal components: staircases, handrails, gates, fences, furniture, mailboxes, lampposts, finials & fireplace screens; wrought iron & aluminum.
Write in No. 418

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Kremer Pigments, Inc.
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www.kremerpigments.com
New York, NY 10001

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Write in No. 4910

Lake Doctors Inc., The
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www.lakedoctors.com
Winter Springs, FL 32708

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The Wintergarden is a collection of unique Orangeries, Conservatories, and living areas that offer the beauty of summer all yearlong. These one-of-a-kind structures merge centuries of European wood conservatory tradition with the technology of today. By replacing the wood elements with a powder-coated aluminum construction, Private Garden presents a traditional structure that is safe, code compliant, and maintenance free. Our structures are designed and manufactured in Luxemburg to meet any applicable building codes and the strictest expectations of our customers.

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www.uhlfeldergoldleaf.com
Mount Vernon, NY 10553
Supplier of genuine & imitation gold, silver & aluminum leaf: decorative painting & gilding tools, brushes, books, videos & related items; bronze & aluminum powders.
Write in No. 810

The cast-aluminum Williamsburg double mailbox from Mel Northey is 48-in. tall and is available in black, white and verde finishes.

Mel Northey Co., Inc.
800-828-0302; Fax: 281-445-7456
www.melnorthey.com
Houston, TX 77037
Manufacturer of antique reproduction street lighting in cast aluminum: custom mailboxes with posts & street signposts; benches.
Write in No. 53

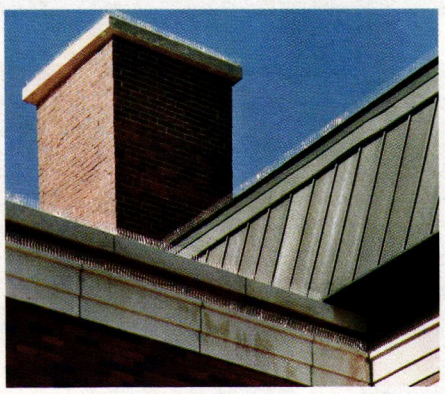
Meyda Tiffany
800-222-4009; Fax: 315-768-1428
www.meyda.com
Yorkville, NY 13495
Supplier of copper-foil lamps & decorative lighting: Tiffany, Victorian, Art Nouveau & other styles; solid-brass Mission lamps; varied styles, sizes & prices.
Write in No. 1425

The four-light Oyster Bay chandelier, model #56475 from Medya Tiffany, is crafted with Gobel art glass and features a vintage copper finish.

Mica Lamp Co.
818-241-7227; Fax: 818-241-5439
www.micalamps.com
Glendale, CA 91203
Manufacturer light fixtures: finely detailed copper, iron & mica; period authentic styles & custom modern interpretations; outdoor fixtures & highdesign ceiling fanlight kits available.
Write in No. 5870

Mica Lamps offers a selection of vintage mini mica shades in two mineral colors, orange-amber and almond-natural.

Moulding Associates, Inc.
800-394-6680; Fax: 972-487-6584
www.maidoors.com
Wylie, TX 75098
Supplier of entry doors in solid mahogany & oak: extensive design range; art glass with brass or sterling zinc caming, hand-carved wood panels, beveled French doors & much more.
Write in No. 1817



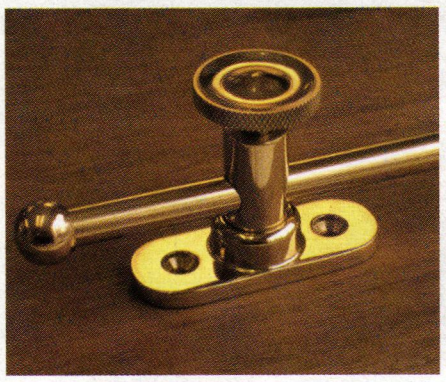
Stainless-steel bird barriers from Nixalite protect buildings from nesting birds.

Nixalite Architectural Bird Control
800-624-1189; Fax: 800-624-1196
www.nixalite.com
East Moline, IL 61244
Manufacturer of stainless-steel bird barriers & deterrents: Nixalite needle strips & Fliteline post & wire bird deterrent; K-Net Ultra strong knotted netting & PollyNet extruded knotless netting.
Write in No. 370

Olde Mill Lighting, Ltd.
717-299-2512; Fax: 717-299-5822
www.oldemilllighting.com
Lancaster, PA 17602
Manufacturer of lighting fixtures: chandeliers, sconces, foyer & hall lights & exterior post & wall lamps; aged tin, brass & copper; Period American styles; historical reproductions; handcrafted; custom orders.
Write in No. 2664

This six-light chandelier is one of many models available from Olde Mill Lighting.

Phelps Company
802-257-4314; Fax: 802-258-2270
www.phelpscompany.com
Brattleboro, VT 05301
Manufacturer of traditional hot-forged solid-brass window hardware: sash pulleys, weights, chains, lifts & locks; stop bead adjusters, spring bolts, window ventilation locks, casement hardware, storm/screen-door latchsets & more.
Write in No. 6001



This solid-brass casement window stay is available from Phelps Company.

ProTech Systems, Inc.
800-766-3473; Fax: 518-463-5271
www.protechinfo.com
Albany, NY 12202
Supplier of Ventinox chimney-lining systems: continuously welded, air-tight flexible liners fabricated from titanium-stabilized stainless steel; acid-resistant & non-porous surface; UL listed.
Write in No. 1445

Regency Railings
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www.regencyrailings.com
Dallas, TX 75207
Manufacturer of ornamental stair & railing components: spiral-, curved- & straight-stair railings in iron; prefabricated.
Write in No. 961

Reggio Register Co., The
800-880-3090; Fax: 978-772-5513
www.reggioregister.com
Ayer, MA 01432
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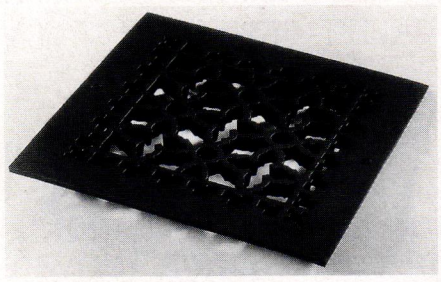

The Reggio Register Co. offers a selection of grilles in period styles and materials.

Rik-Fer USA
877-838-0900; Fax: 630-350-0902
www.rikferusa.com
Addison, IL 60101
Supplier of architectural forged-iron elements: for interior & exterior railings, drive & walk gates, decorative window grilles & more.
Write in No. 1745

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www.signaturehardware.com
Erlanger, KY 41018
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Write in No. 1376

Specification Chemicals, Inc.
800-247-3932; Fax: 515-432-8366
www.spec-chem.com
Boone, IA 50036
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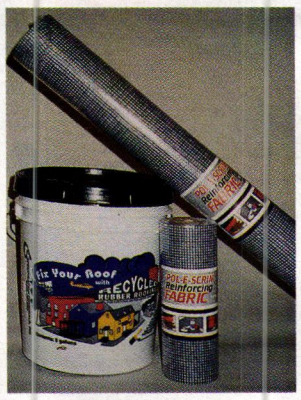
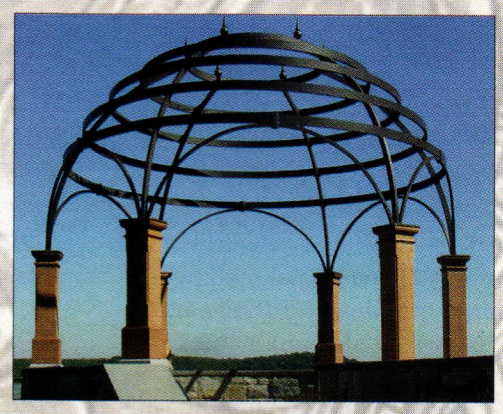
Write in No. 1530 for walls; 1531 for roofing

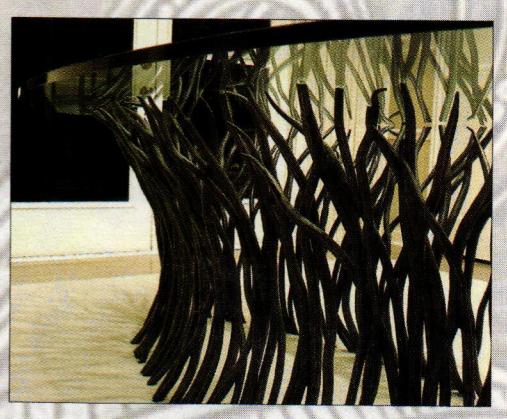


Recycled rubber roofing products from Specification Chemicals can be used for patching or for entire roofs.

Sur-Fin Chemical Corp.
323-262-8108; Fax: 323-264-7734
www.surfinchemical.com
Los Angeles, CA 90023
Manufacturer of patinas & metal coloring liquids: for copper, brass, bronze, steel, galvanized steel, aluminum, zinc, pewter & iron; interior/exterior lacquers, coatings & cleaners; for roofs, gutters, lighting, gates & more.
Write in No. 5620

This orange patina is one of many metal finishes that can be acquired from Sur-Fin Chemical.





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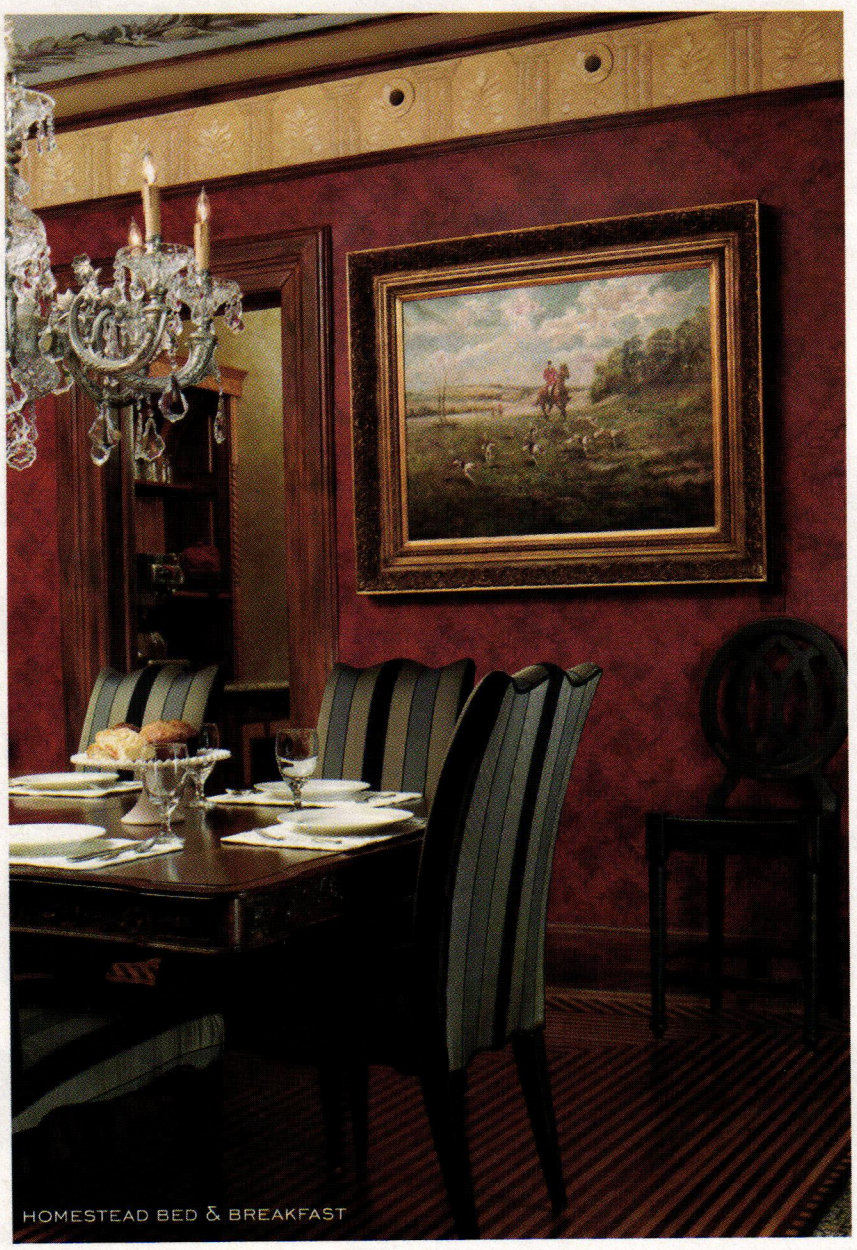

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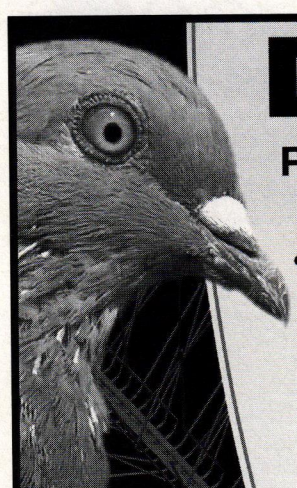

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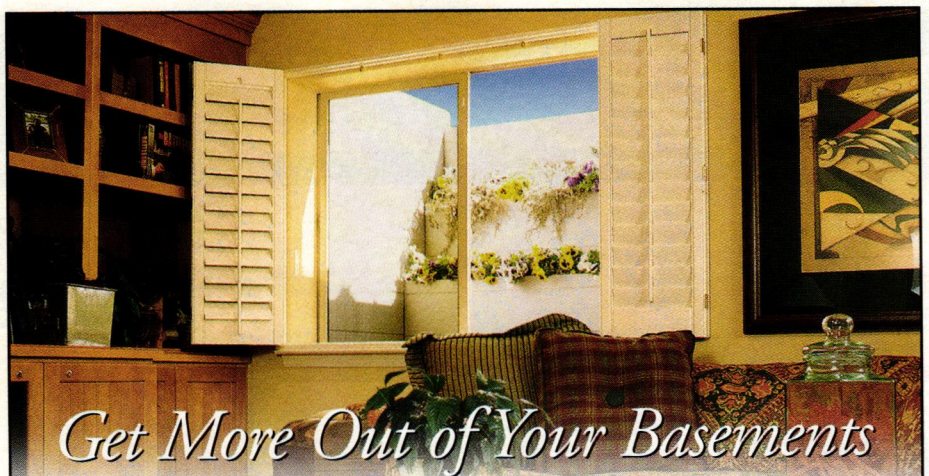

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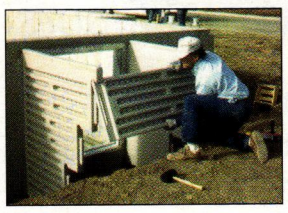

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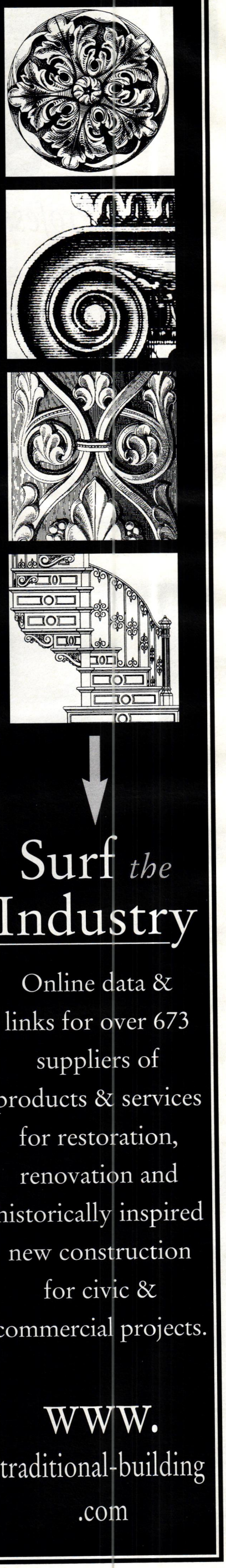

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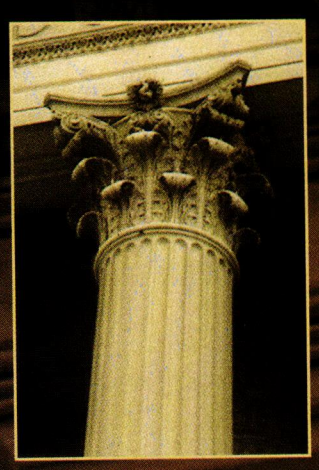

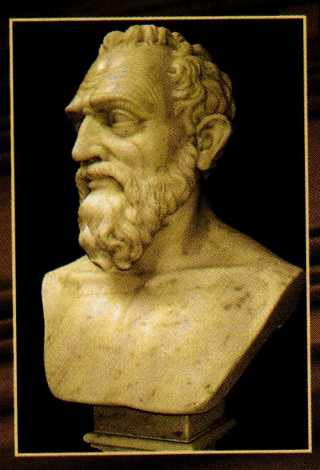

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AboWeld 8005-6: to bond new poured concrete to old concrete and other surfaces.

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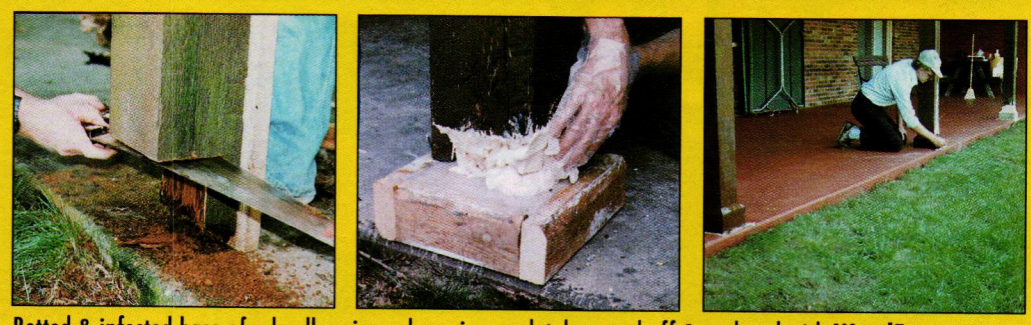
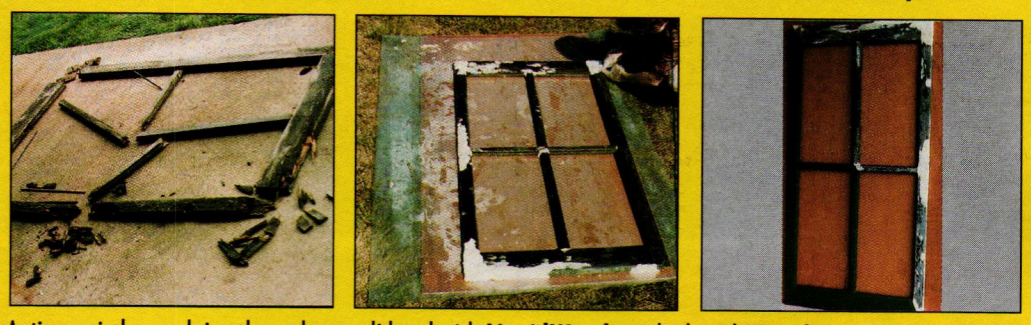
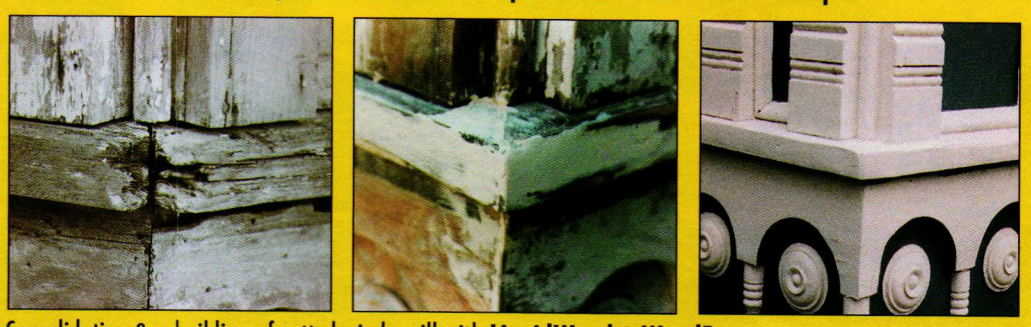


Rotted & infested base of a loadbearing column is completely sawed off & replaced with **WoodEpox.**



Antique window sash is salvaged, consolidated with **LiquidWood** & rebuilt with **WoodEpox.**



Consolidation & rebuilding of rotted windowsill with **LiquidWood** & **WoodEpox.**

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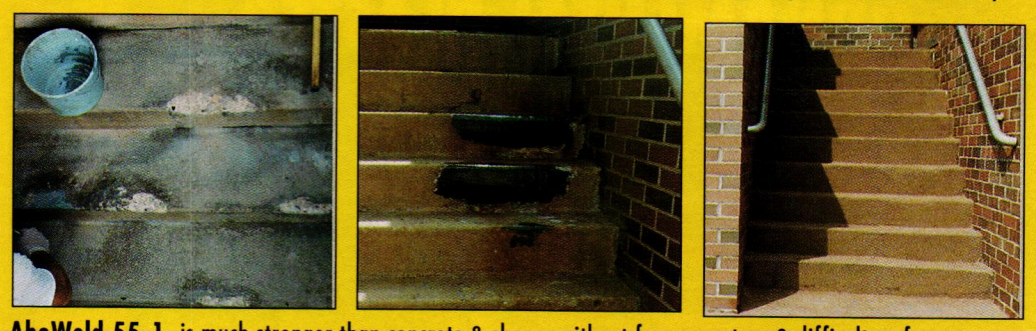
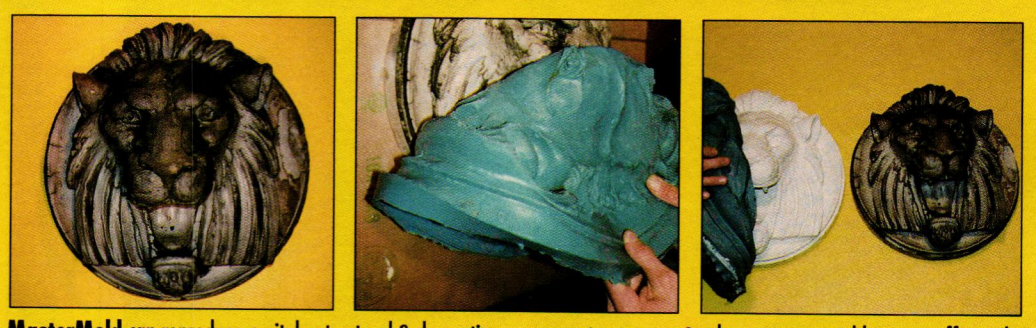


AboWeld 55-1, is much stronger than concrete & shapes without forms on steps & difficult surfaces.



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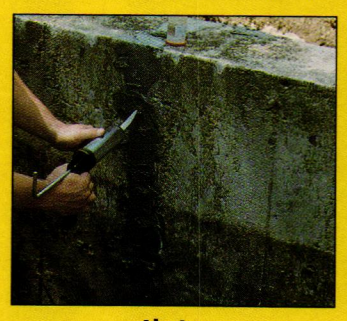
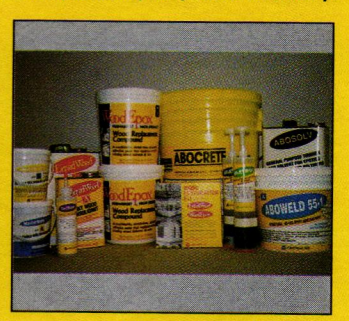


AboJet
series for structural crack-injection



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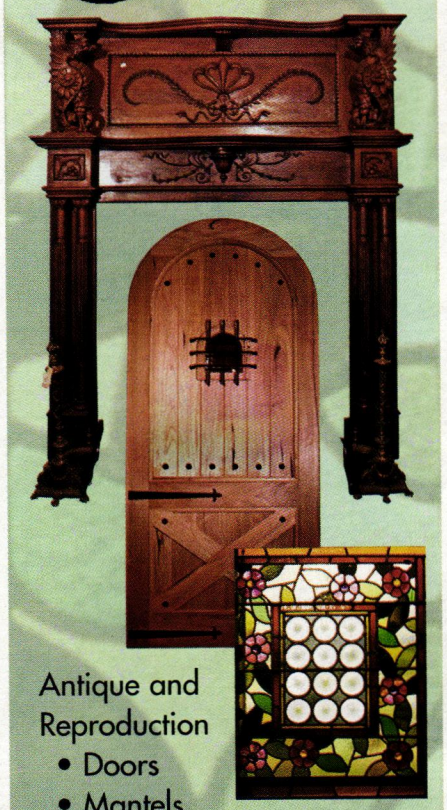

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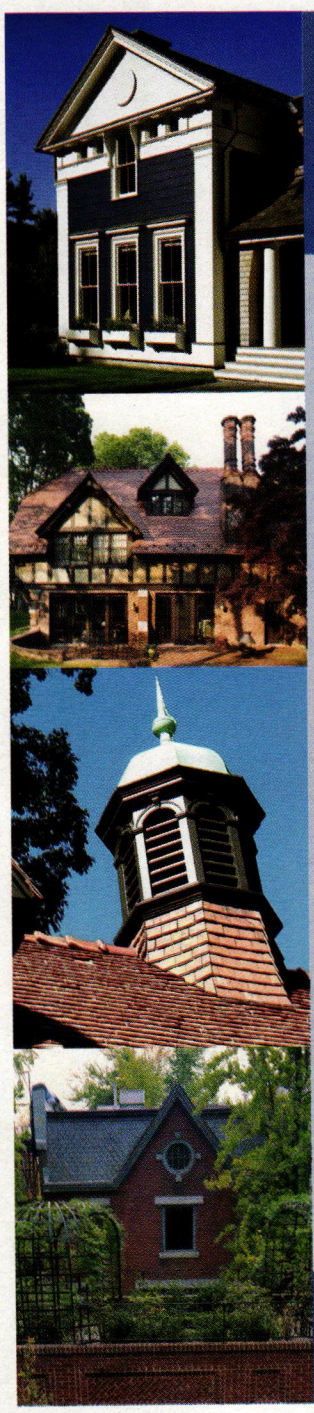

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Co-produced by *Traditional Building* and *Period Homes* and the Traditional Building Exhibition and Conference

The Palladio Awards are named in honor of Andrea Palladio, the Renaissance architect who created modern architecture for his time while using models from the past for inspiration and guidance.

Palladio Awards for Commercial, Civic & Institutional Architecture will be awarded in five categories:

Restoration & Renovation
Adaptive Reuse &/or Sympathetic Addition
New Design & Construction – less than 30,000 sq.ft.
New Design & Construction – more than 30,000 sq.ft.
Public Spaces: Parks, Plazas, Gardens, Streetscapes

Corresponding awards will also be made for residential projects.

Judging is by a panel of distinguished design professionals selected by the editors of *Traditional Building* and *Period Homes*.

The deadline for entries is November 15, 2006.

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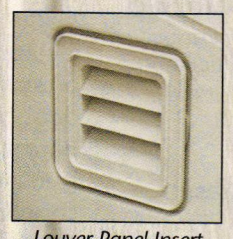
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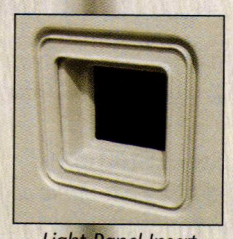
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Arthur Stern Studios designed, fabricated and installed the "Holy Spirit Window" at Holy Trinity Episcopal Church in Menlo Park, CA.

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This colorful triptych of grape vines was designed and fabricated by ATG Studio.

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This life-size statue, "Torsos," was carved in Italian Cantera white marble by sculptor Shi-Jia Chen of B&H Art.

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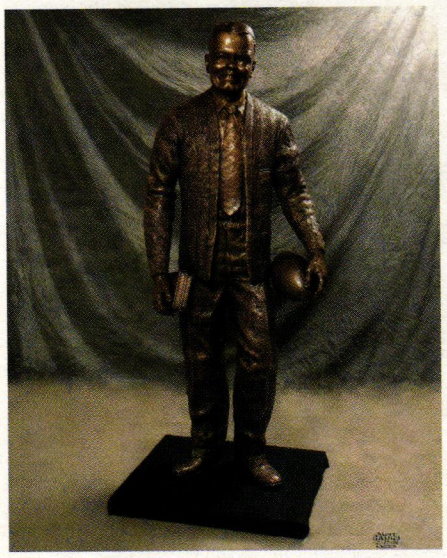

Bennett Studio created this life-size bronze statue "Nile Kinnick," which stands at the Iowa Events Center Hall of Pride in Des Moines, IA.

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This St. Michael the Archangel stained-glass window was designed, fabricated and installed by Bovard Studio for a private chapel in Wichita, KS.

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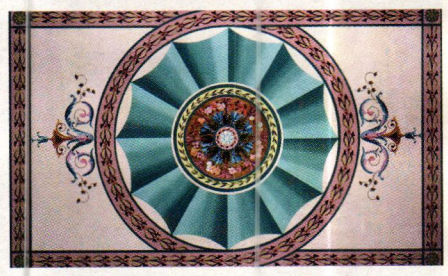

This floral fan design was created by Canning Studios.

Canning Studios
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www.canning-studios.com
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"Agony In The Garden" is one of 24 new windows completed by Cathedral Crafts at Holy Rosary Catholic Church in North Mankato, MN.

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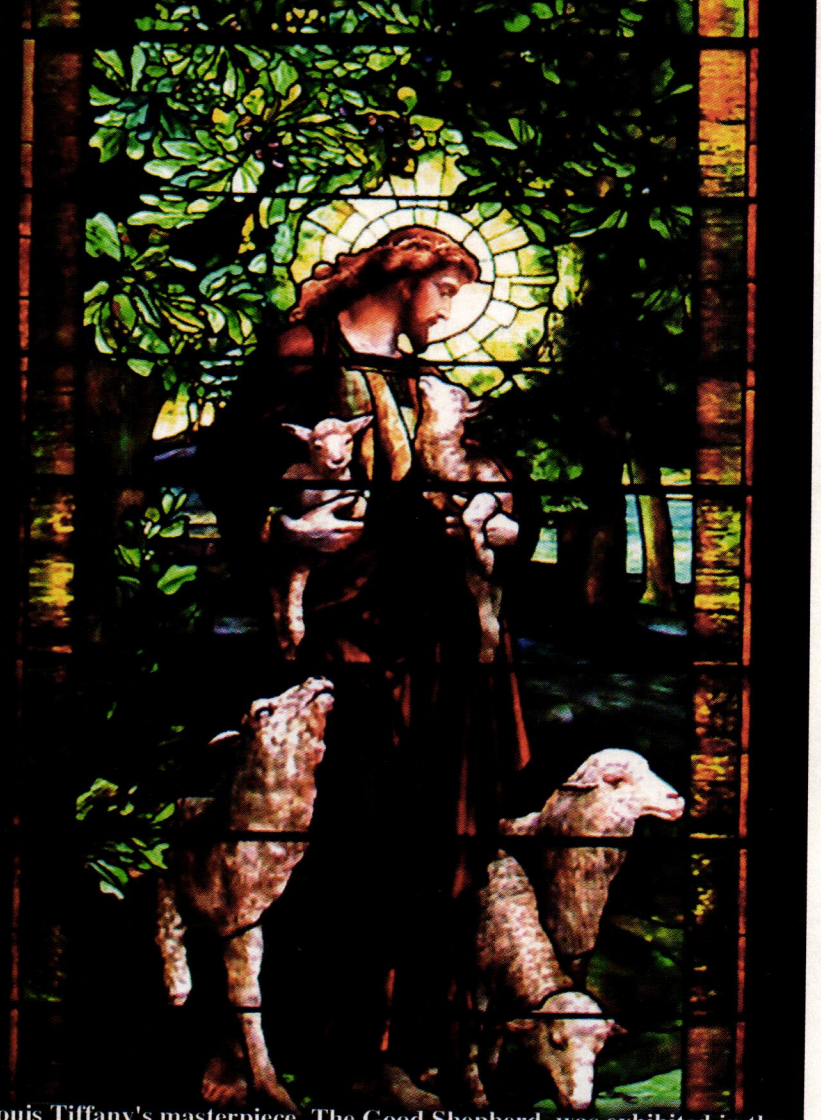

Louis Tiffany's masterpiece, The Good Shepherd, was exhibited in the 1893 World Columbian Exhibition representing his finest production in glass. This Good Shepherd window was purchased by Judge D. N. Cooley's family as the memorial for him and his wife Clara for St. Luke's United Methodist Church, Dubuque, Iowa, where it was installed in 1896. Bovard Studio was selected to restore this historic Tiffany masterpiece in 2002.

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This is the first of 16 5x7-ft. panels created by Craig Gallagher Art Studio illustrating "The Life Of Saint Bernard."

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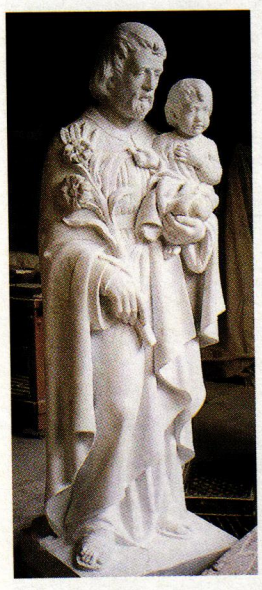

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Artists from EverGreene Painting Studios painted these angels for St. Joseph's Cathedral in Wheeling, WV.

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New York, NY 10001
Decorative arts studio: murals, decorative painting, gilding, plaster, wood, metal, stone & mosaics; new design, conservation & restoration; ecclesiastical, institutional, public & commercial projects; offices in NYC & Chicago.
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Fabricated by George Fishman of Fishman Mosaics, "Curacao Façade" is made of smalti and stone and measures 32x22 in.; it is one of a series of images for a cruise-ship project.

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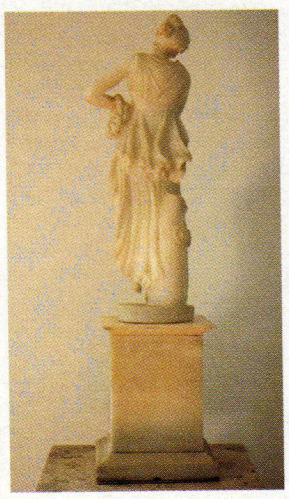

Gerald Siciliano restored this alabaster figure, recarving missing pieces at the neck, arms and legs.

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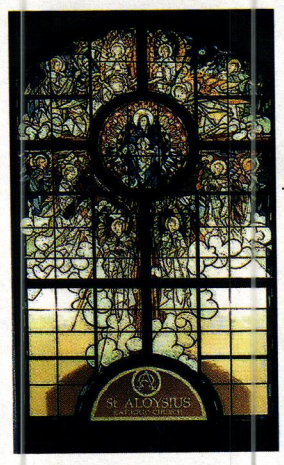

This custom stained-glass frame was fabricated by J. Sussman for the St. Aloysius Roman Catholic Church in New Canaan, CT.

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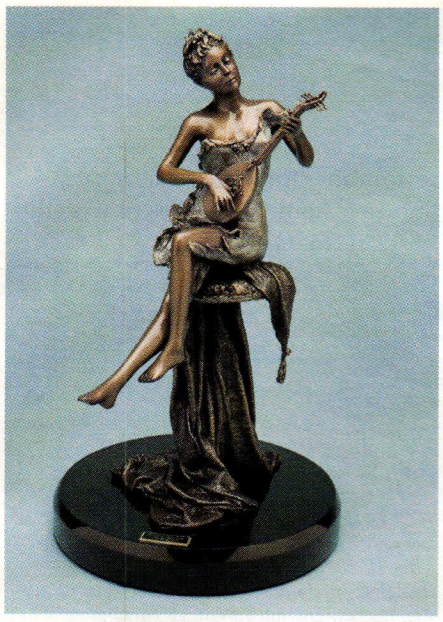

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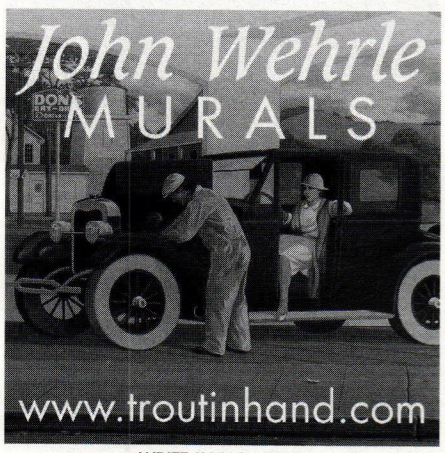

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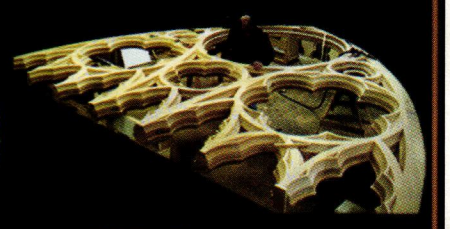

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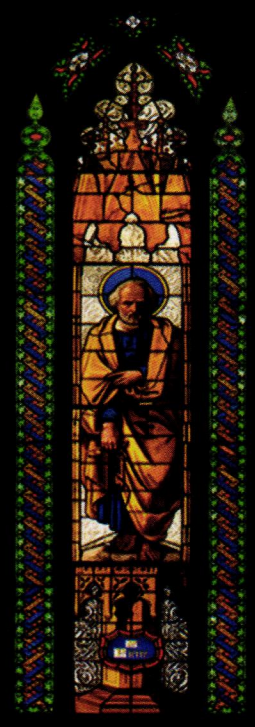

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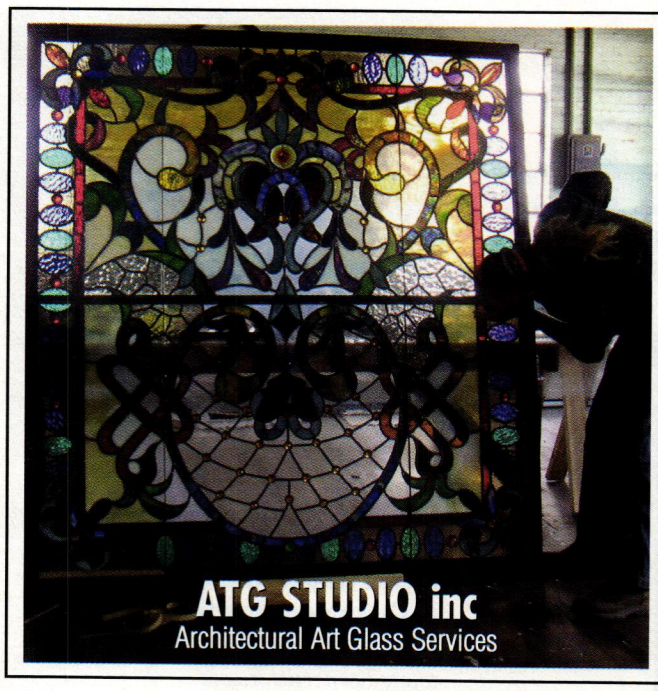

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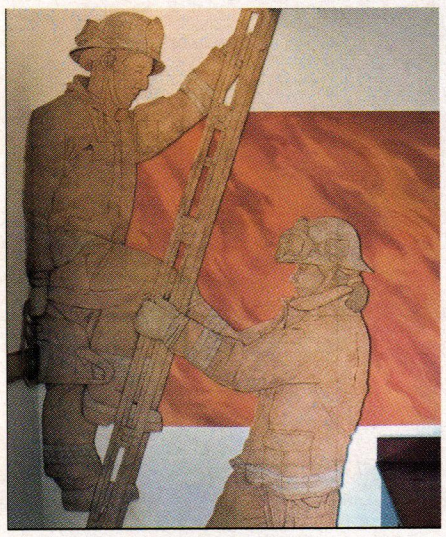

This detail shows one of two carved and painted relief installations fabricated by John Wehrle Artworks for the interior of a fire station in Encino, CA.

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www.troutinhand.com
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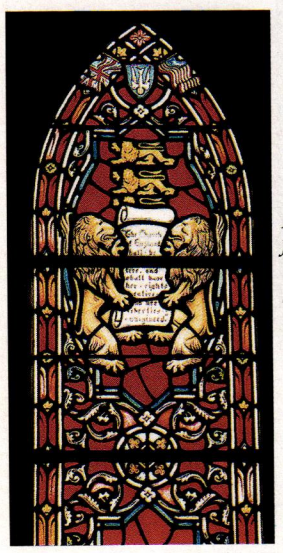

Judson Studios fabricated this traditionally styled ecclesiastical window.

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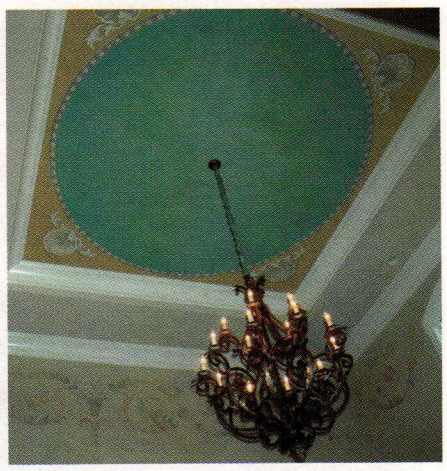

This colorful trompe l'oeil ceiling mural was painted by Lynne Rutter on canvas and installed in a grand entry.

Lynne Rutter Murals & Decorative Painting
415-282-8820; No fax
www.lynnerutter.com
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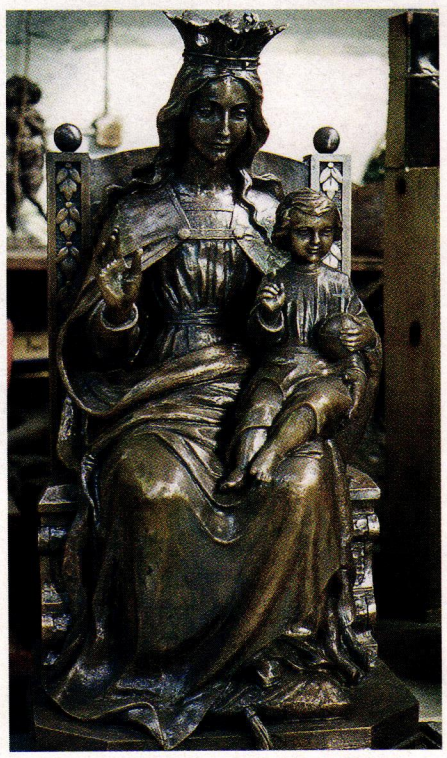

Modern Art Foundry cast this representation of the Madonna and Child.

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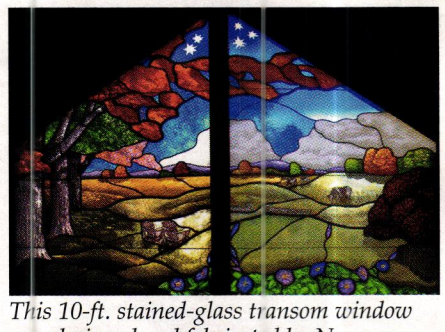

This 10-ft. stained-glass transom window was designed and fabricated by Neumann Studios for the Meadowlark Inn in Brattleboro, VT.

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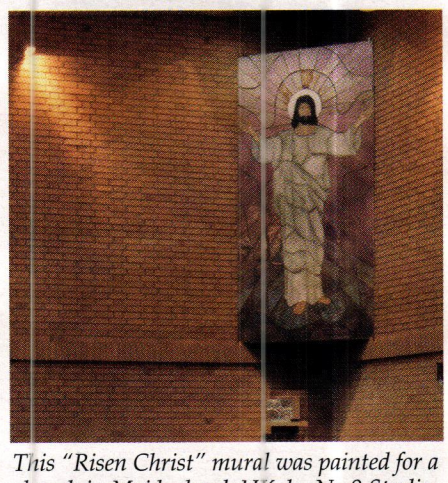

This "Risen Christ" mural was painted for a church in Maidenhead, UK, by No 9 Studio.

No 9 Studio UK
011-44-1769-5404-71;
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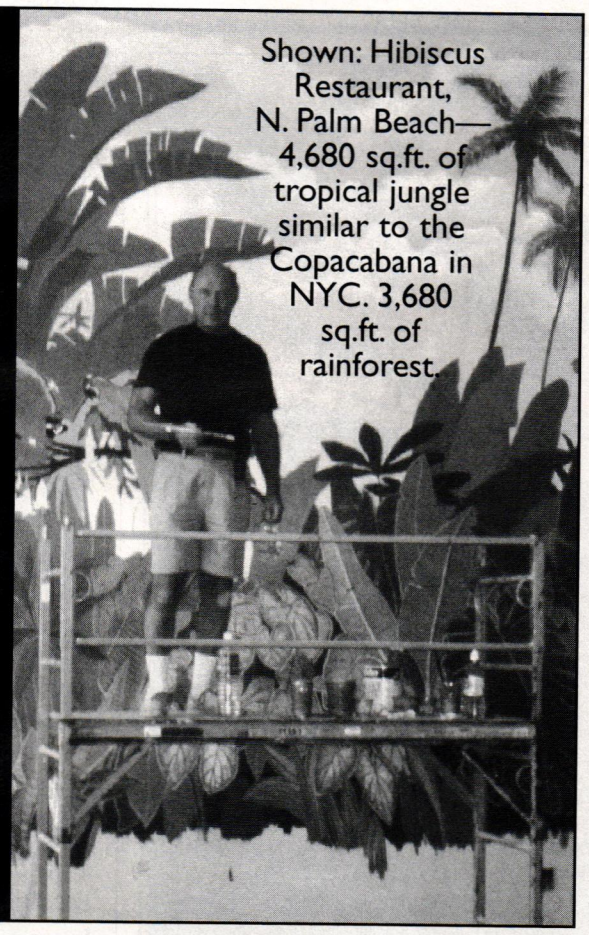

Shown: Hibiscus Restaurant, N. Palm Beach—4,680 sq.ft. of tropical jungle similar to the Copacabana in NYC. 3,680 sq.ft. of rainforest.

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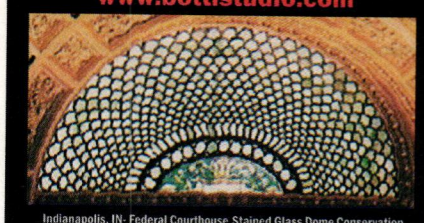

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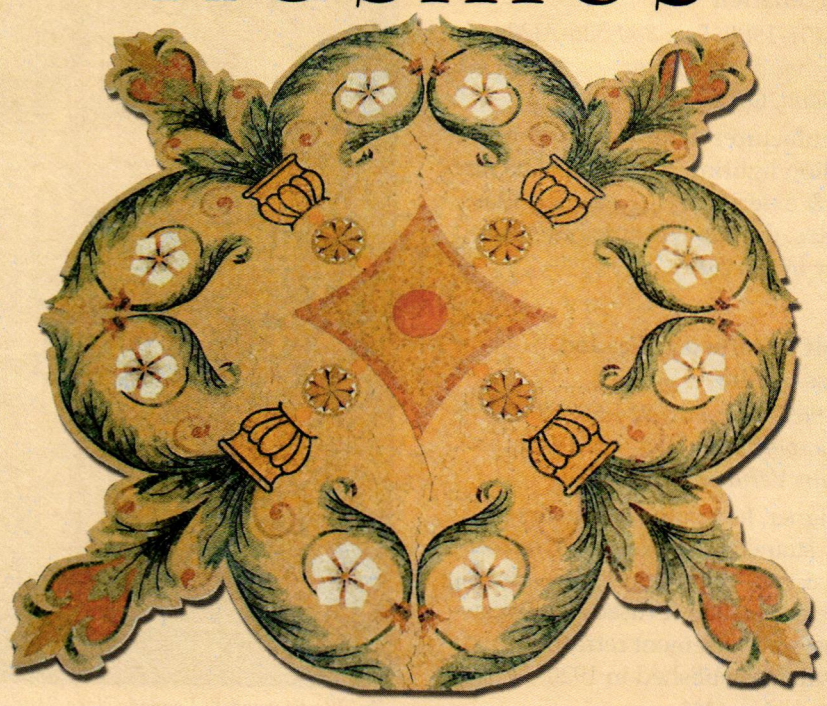

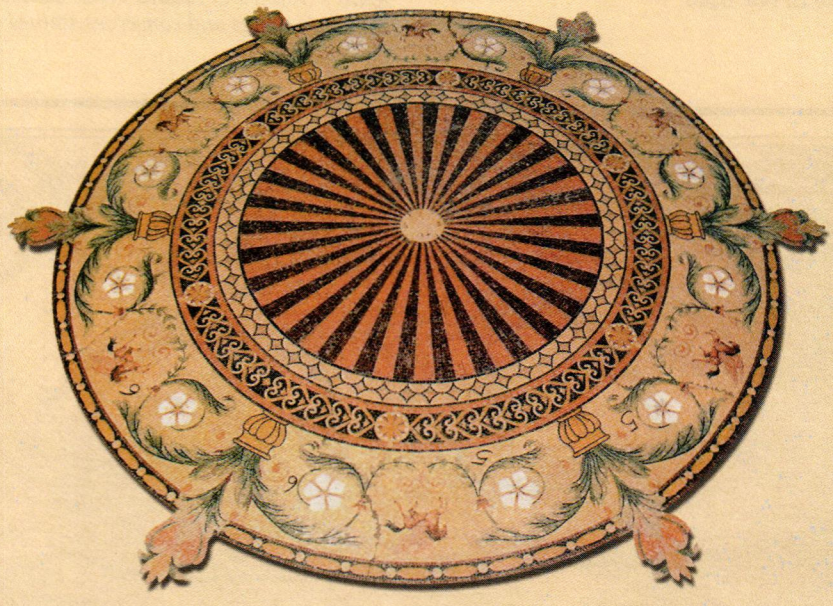

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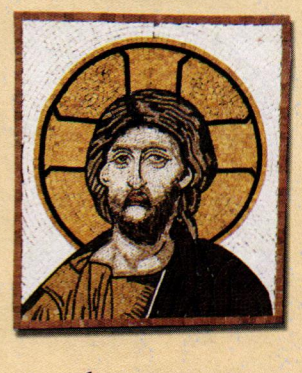

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This mural depicting King Minos' throne room was designed and painted for the Minotaur Restaurant in New York City by Russ Elliot Gallery.

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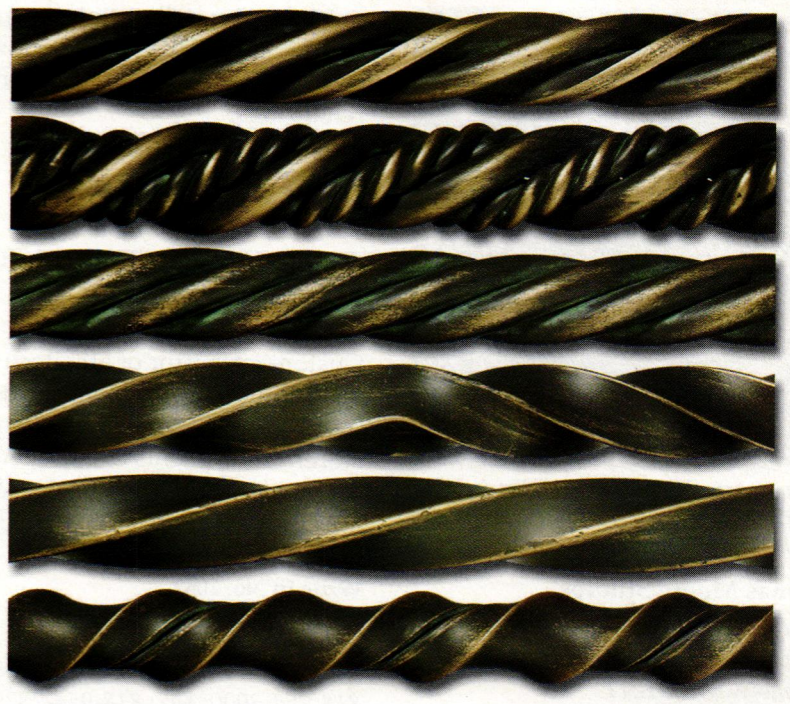

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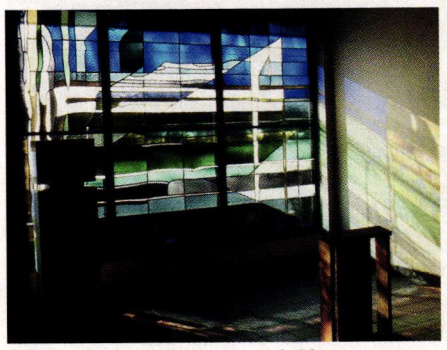

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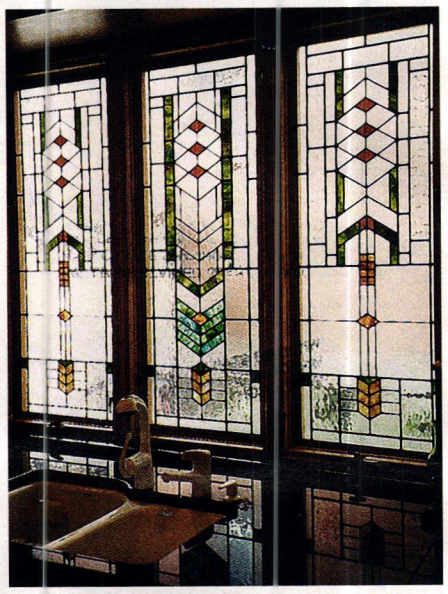

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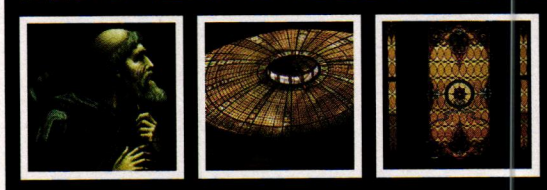

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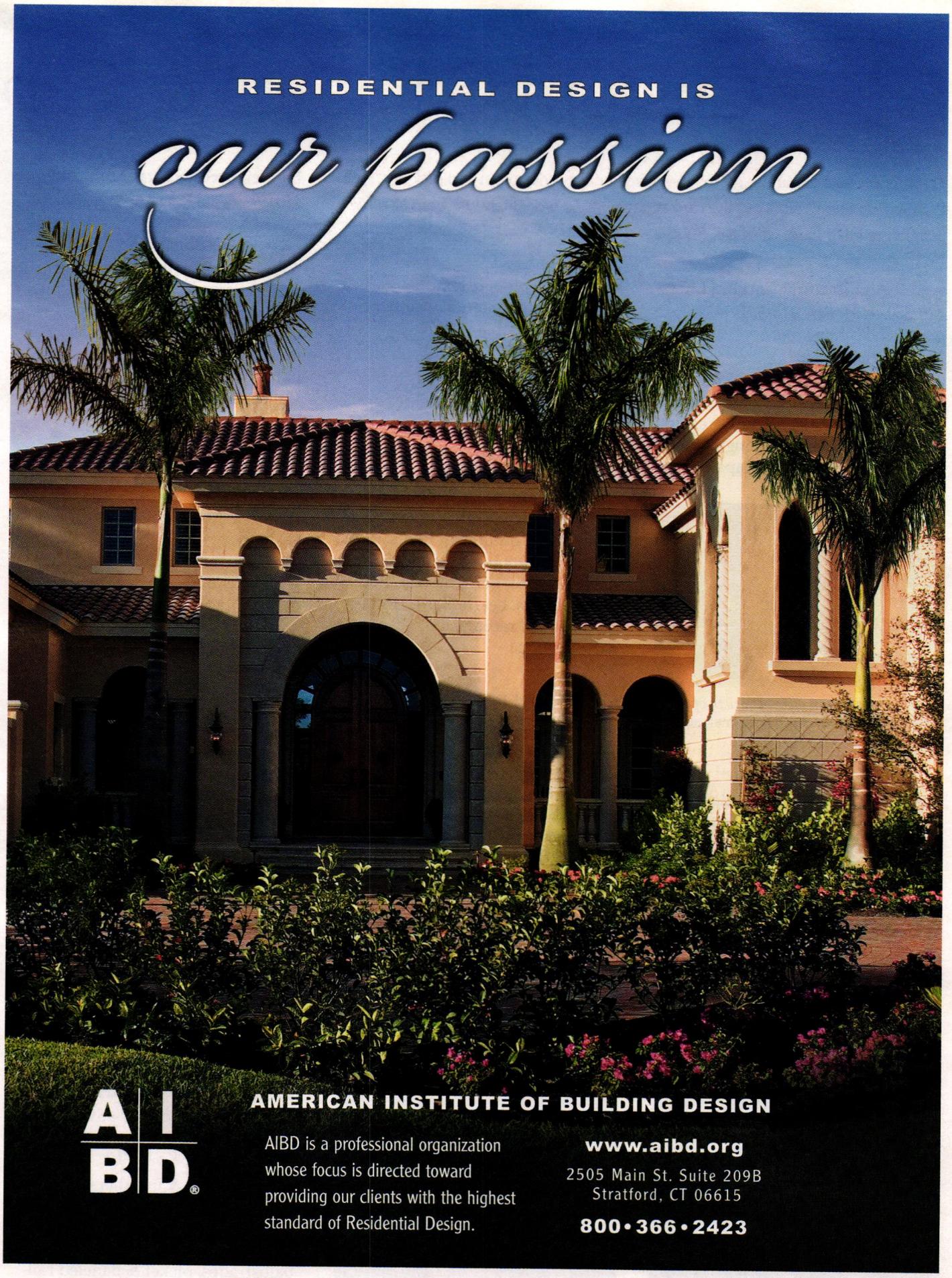

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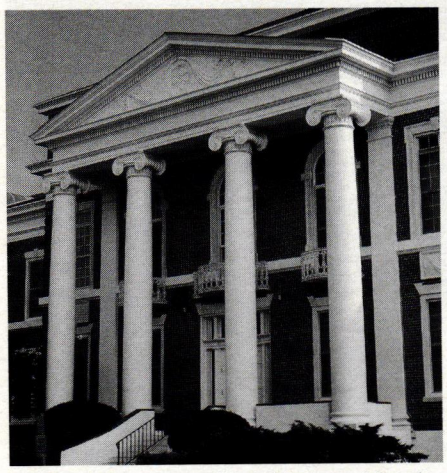

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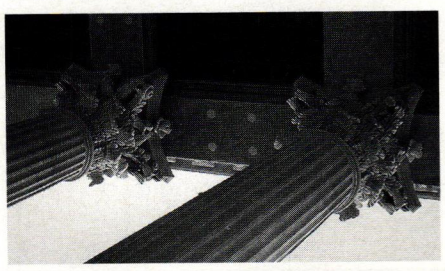

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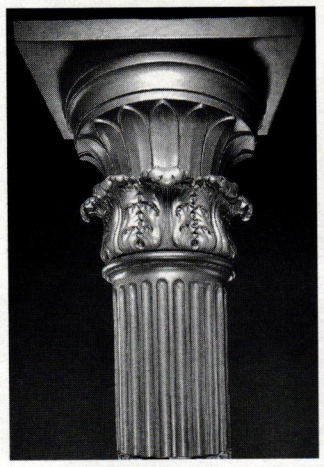

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Custom fabricator of architectural terra-cotta products: roof tile & Terraclad (rain-screen system); columns/capitals, cornices, balustrades, garden sculpture & chimneys; standard & custom shapes & colors; replacements & new designs.
Write in No. 160

Campbellsville Industries, Inc.
800-467-8135; Fax: 270-465-6839
www.cvilleindustries.com
Campbellsville, KY 42719
Manufacturer & installer of architectural metalwork: steeples, cupolas, clock towers, finials, weathervanes, dormers, cornices, crosses, columns, balustrades, picket & paneled railings; aluminum, copper, zinc & lead-coated copper.
Write in No. 2730

This 8½-ft.-tall Mexican travertine column was manufactured by Cantera Especial.

Cantera Especial
800-564-8608; Fax: 818-907-0343
www.cantera-especial.com
Pacific Palisades, CA 90272
Manufacturer of hand-carved natural-stone products made from limestone, cantera, adoquin, travertine, marble & sandstone quarried in Europe & Mexico: fireplaces, fountains, columns, balustrades, molding, sculpture & custom work.
Write in No. 31

Handcrafted columns and capitals are the specialties of Cast Designs & Supply.

Cast Designs & Supply, LLC
931-685-0536; Fax: 931-685-0990
www.castdesignsupply.com
Shelbyville, TN 37162
Supplier of handcrafted ornamental & architectural products: molding, medallions, capitals, corbels, cartouches, panels, mantels & domes; reinforced plaster; custom restoration.
Write in No. 451

Jeweler Elizabeth Locke used Chadsworth's Roman Corinthian columns throughout her Virginia Showroom.

Chadsworth's 1.800.Columns
800-486-2118; Fax: 910-763-3191
www.columns.com
Wilmington, NC 28401
Manufacturer of architectural columns, pillars, pilasters, posts, balustrades & pergolas: interior & exterior; variety of sizes, styles & lumber species; Authentic Replication, PolyStone, Colossal, & original design.
Write in No. 1580 for PolyStone; 180 for wood

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DeAngelis Iron Work supplied and installed 12 cast-iron capitals for the recently completed exterior restoration of the Massachusetts State House.

DeAngelis Iron Work, Inc.
888-676-4766; Fax: 508-238-7757
www.deangelisiron.com
South Easton, MA 02375

Custom fabricator & installer of ornamental metalwork: fences, gates, columns, capitals, benches & more; cast & wrought iron, bronze, brass, aluminum, stainless steel & more.
Write in No. 1023

Decorators Supply Corp.
773-847-6300; Fax: 773-847-6357
www.decoratorssupply.com
Chicago, IL 60609

Supplier of period architectural elements: ceiling medallions, mantels, cornices, columns & capitals; plaster of Paris, compo & wood; 14,000 patterns available.
Write in No. 210

DMS Studios
718-937-5648; Fax: 718-937-2609
www.dms-studios.com
Long Island City, NY 11101

Custom fabricator of hand-carved stone elements: fountains, mantels, statuary, balustrades, capitals & landscape ornament; historically accurate.
Write in No. 9100

Fagan Design & Fabrication, Inc.
203-937-1874; Fax: 203-937-7321
www.fagancolumns.net
West Haven, CT 06516

Manufacturer of columns & turnings: stain grades in any wood species; Classical orders; stock & custom; worldwide supplier.
Write in No. 8210

This 6½-in.-tall pilaster capital is the work of Felber Ornamental Plastering Corp.

Felber Ornamental Plastering Corp.
800-392-6896; Fax: 610-275-6636
www.felber.net
Norristown, PA 19404

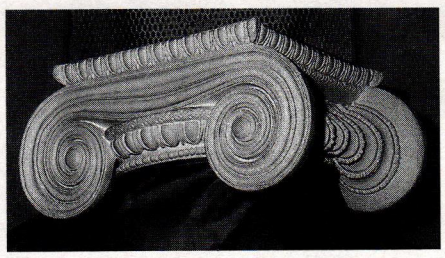
Supplier of interior molded ornament: capitals, cornices, friezes, niches, keystones, rosettes, coffers, domes & medallions; custom mantels; plaster, gypsum & GRG; sculptors, modelmakers & casters on staff; stock & custom.
Write in No. 2890

Fiberglass Specialties, Inc.
800-527-1459; Fax: 903-657-2318
www.fsiweb.com
Henderson, TX 75653

Manufacturer of FRP steeples, domes & cupolas: dozens of stock sizes & components; fiberglass & custom baptismal fonts; columns & balustrades; design department assists with custom requirements.
Write in No. 7310

Fischer & Jirouch Co.
216-361-3840; Fax: 216-361-0650
www.fischerandjirouch.com
Cleveland, OH 44103

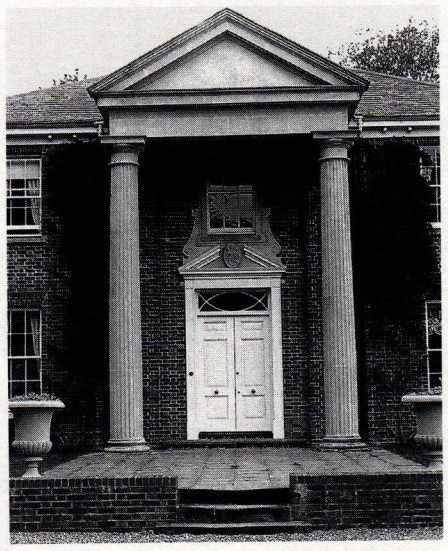
Manufacturer of handcrafted plaster moldings: columns, capitals, ceiling medallions & fireplace mantels; interior & exterior ornament.
Write in No. 1960



Fischer & Jirouch manufactures hand-crafted architectural ornament, including Greek-style capitals.

Goodwin Associates
585-248-3320; Fax: 585-387-0153
www.goodwinassociates.com
Rochester, NY 14618

Supplier of architectural products: cornice moldings, columns, capitals, balustrades, door & window surrounds, ceiling medallions, niches, domes, brackets, corbels, mantels & more; polyurethane, FRP & hardwood millwork.
Write in No. 806



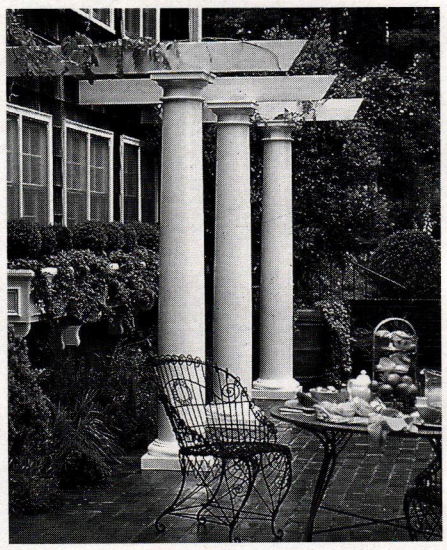
The large M1 columns, Doric capitals, pediment, sill and copings for this building were fabricated by Haddonstone.

Haddonstone (USA), Ltd.
856-931-7011; Fax: 856-931-0040
www.haddonstone.com
Bellmawr, NJ 08031

Manufacturer of Classical stonework: columns, balustrades, benches, planters, urns, pavers, fountains, gazebos, mantels, statuary & more; cast, reconstructed limestone resembling Portland stone; more than 500 designs.
Write in No. 4020

HB&G
800-264-4HBG; Fax: 334-566-4629
www.hbgcolumns.com
Troy, AL 36081

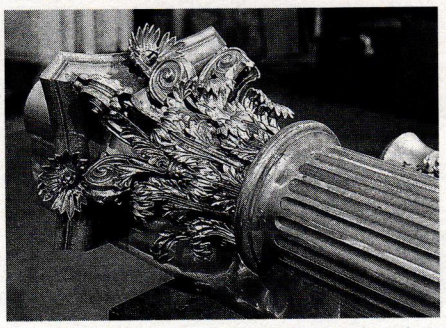
Supplier of low-maintenance porch products, columns, spindles, balustrades, newels, posts, railings, moldings & entrances: polyurethane & permacast FRP; pine & redwood; custom & stock.



Manufactured by HB&G, these columns enhance this outdoor patio area.

Historical Arts & Casting, Inc.
800-225-1414; Fax: 801-280-2493
www.historicalarts.com
West Jordan, UT 84088

Designer & custom fabricator of ornamental metalwork: doors, windows, hardware, stairs, balustrades, registers, fences, lighting, gutters, columns, weathervanes, planters & more; iron, bronze, aluminum & steel; restoration services.
Write in No. 1210



Historical Arts & Casting designed and fabricated this Corinthian capital for a fluted column.

JMS Wood Products
818-348-7230; Fax: 818-348-7231
www.jmswoodproducts.com
Canoga Park, CA 91304

Supplier of custom millwork: roped, fluted & twisted stair parts; columns, capitals & moldings; all wood species.
Write in No. 6320

Manor Style, Ltd.
800-325-2188; Fax: 443-200-0010
6741 Whitestone Rd.
Baltimore, MD 21207

Custom fabricator & nationwide supplier of architectural elements: Durastyl & AZEK PVC square columns, newels, panels, arches, trellis & trim; load-bearing fiberglass columns & capitals; preformed balustrading; free literature.
Write in No. 703

Manor Style's fiberglass columns with Corinthian capitals separate the hallway from the seating area in this residence.

Michael A. Dow — Woodcarver
207-363-7924; Fax: Same as phone
www.archcarving.com
York, ME 03909

Custom wood carver: any style & wood; architectural, ornamental, furniture, mantels & nautical carvings; molding, capitals & signage; wood turnings, modelmaking & antique carving restoration.
Call for more information.

Michigan Ornamental Metals
201-945-4930; Fax: 201-945-4931
www.michiganornamental.com
Ridgefield, NJ 07657

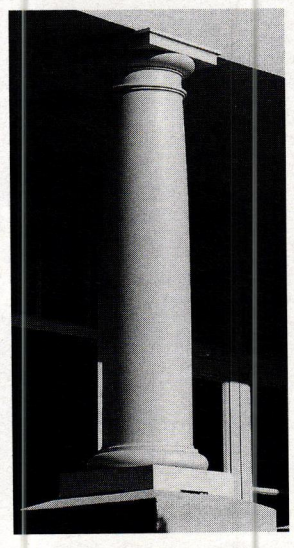
Custom fabricator of metal ornament: columns, capitals, rosettes, wreaths, cornices & ceilings; cupolas, domes, gutters, finials, leaders & leader boxes; stamped/pressed sheet metal; replications & historic reproductions.
Write in No. 9520

Mohamad Woodturning Corp.
718-417-0025; Fax: 718-417-0021
www.mohamadwoodturning.com
Brooklyn, NY 11206

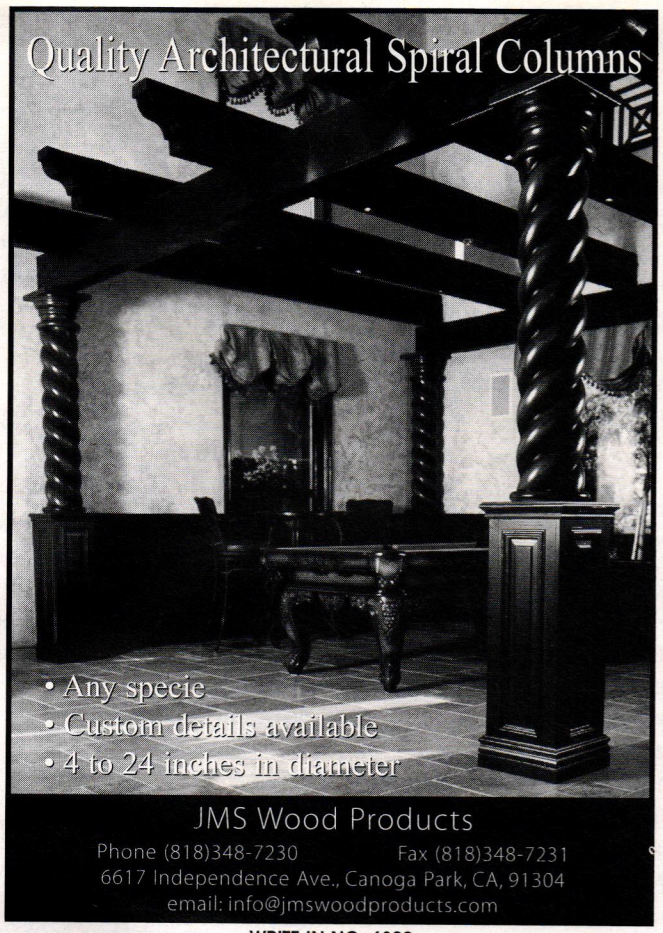
Supplier of custom wood turnings: roped, twisted, fluted & spiral stairs & stair parts; balusters & columns; Classical styles; exterior & interior.
Write in No. 50

Pagliacco Turning & Milling
415-488-4333; Fax: 415-488-9372
www.pagliacco.com
Woodacre, CA 94973

Manufacturer of columns & other turnings: solid & hollow turnings from 1-5/8 to 24 in. x 20 ft.; load- & non-load-bearing; balusters, handrails & newel posts; Classical styles; stock & custom turnings.
Write in No. 7070



Pagliacco offers a complete line of standard and custom architectural wood products, including this column.



JMS Wood Products
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6617 Independence Ave., Canoga Park, CA, 91304
email: info@jmswoodproducts.com

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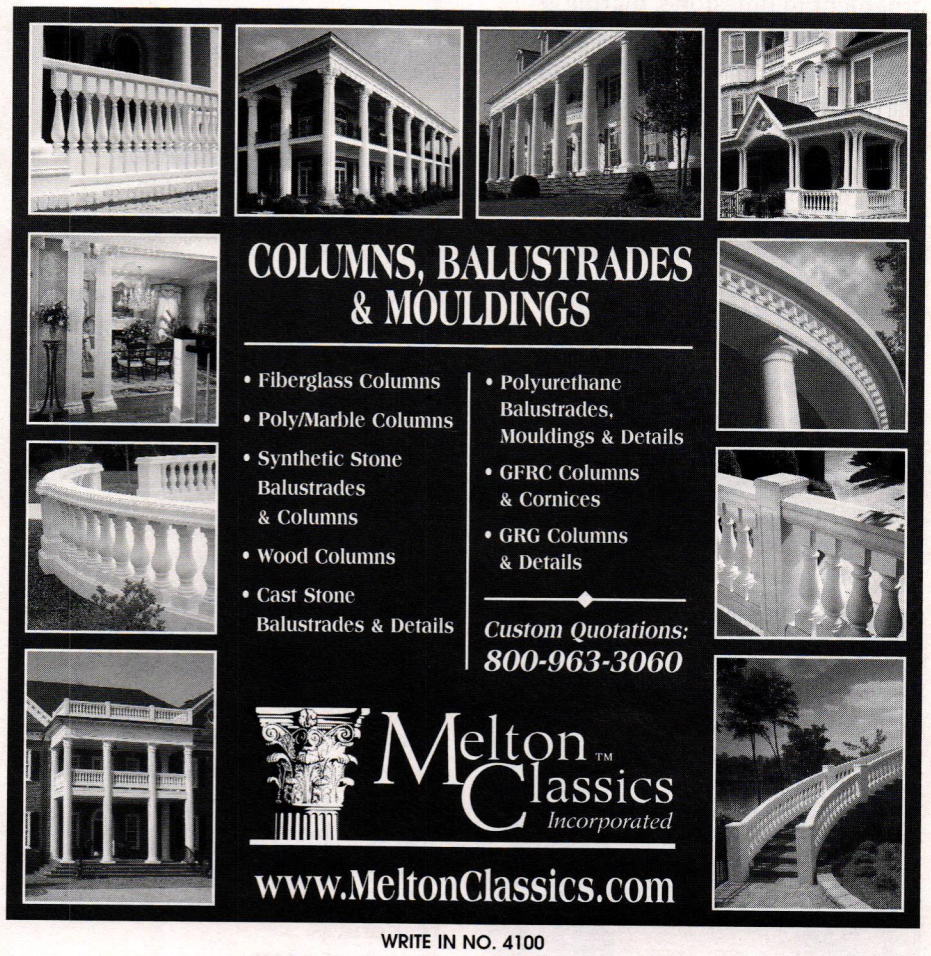
Phone: (203) 937-1874 Fax: (203) 937-7321
www.fagancolumns.net

WRITE IN NO. 8210

WRITE IN NO. 1009



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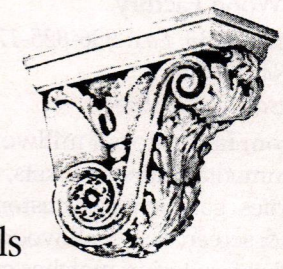

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Pellettieri Stonecarving created this limestone Renaissance-style pilaster capital as a tribute to a major benefactor for the offices of the Institute of Classical Architectural & Classical America in New York City.

Pellettieri Stonecarving
646-229-6418; No fax
www.stonecarving.us
New York, NY 10027
Custom fabricator of stone carving & sculpture: figures & architectural ornament in limestone, marble & sandstone; tiered & wall sculptural fountains; planters & urns; mantels; baptismal fonts, pulpits, tombs & inscriptions.

Seal Reinforced Fiberglass, Inc.
631-842-2230; Fax: 631-842-2276
www.sealfiberglass.com
Copiague, NY 11726
Supplier of FRP building components: cornices, cupolas, columns, balustrades, brackets, planters, urns, water features & garden ornament; full-service mold & tool fabricator; on-site molds.
Write in No. 4620 for cornices; 1353 for cupolas

Seal Reinforced Fiberglass fabricated these columns, capitals and bases for a building in Deal, NJ.

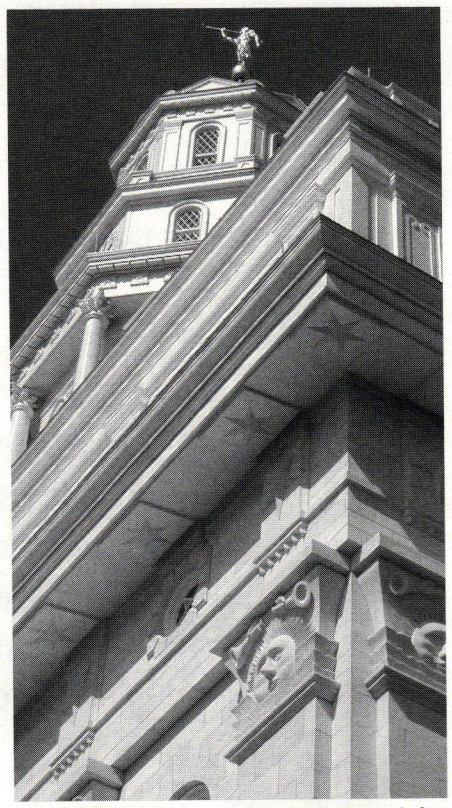
The Wood Factory
936-825-7233; Fax: 936-825-1791
111 Railroad St.
Navasota, TX 77868
Custom fabricator of millwork: monumental stairs, brackets, finials, spindles, gazebo parts, custom turnings & screen doors; all wood species; interior & exterior; matches custom parts & workings from renderings; reproductions.
Write in No. 7120

Timeless Architectural Reproductions, Inc.
800-665-4341; Fax: 770-205-1447
www.timelessarchitectural.com
Cumming, GA 30041
Manufacturer of architectural ornament: exterior fiberglass columns, decorative capitals, pilasters, balustrades & more; interior columns & capitals; polyester resin, fiberglass & cultured marble composite; custom casting.
Write in No. 1414

Timeless Architectural provided the decorative capitals, columns and architectural millwork for this room.

Towne House Restorations
718-497-9200; Fax: 718-497-3556
www.thrcaststone.com
Brooklyn, NY 11206
Manufacturer of molded ornament: columns, capitals, cornices, balustrades, sculpture & more; cast stone & GFRC; pattern restoration, color matching, field molds, field surveys, shop drawings & engineering; terra-cotta restoration.
Write in No. 545

Traditional Cut Stone, Ltd.
416-652-8434; Fax: 905-673-8434
www.traditionalcutstone.com
Mississauga, ON, Canada L5S 151
European master carver: architectural ornamentation & monumental statuary; restoration; historical reproduction in limestone, sandstone & marble; stone design with clay & plaster models; hand-drawn renderings.
Write in No. 2902

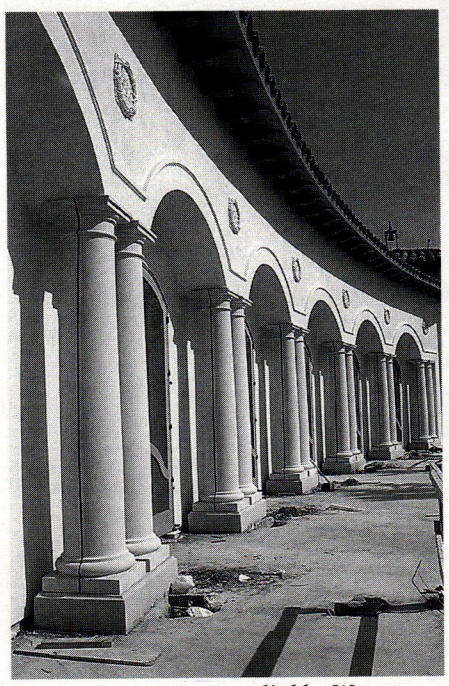


Traditional Cut Stone did the stonework for the Nauvoo Temple in Nauvoo, IL, including the pilasters and capitals.

Turnings Unlimited
937-845-0211; Fax: 937-845-0230
www.turningsunlimited.com
New Carlisle, OH 45344
Custom fabricator of woodwork: stair parts, custom turnings, balusters & newel posts; many wood species.
Write in No. 1122

Vintage Woodworks
903-356-2158; Fax: 903-356-3023
www.vintagewoodworks.com
Quinlan, TX 75474
Manufacturer & supplier of Victorian millwork: wood porch parts, turned posts, turned & sawn balusters, railings, brackets, corbels, custom-length spandrels, columns, screen/storm doors, mantels & more; 192-p. catalog.
Write in No. 1061

Wagner Foundry, Inc.
800-276-1084; Fax: 773-276-9656
www.wagnerfoundry.com
Chicago, IL 60622
Custom fabricator of architectural, art & industrial castings: hardware, sculpture, grilles, signage, plaques, storefront elements & cast-metal ornament; aluminum, bronze & brass; sand & lost-wax casting; ecclesiastical work.
Write in No. 1062



These columns were supplied by Warner Bros. Studio.

Warner Bros. Studio Facilities
818-954-3000; Fax: 818-954-7829
www.wbsf.com
Burbank, CA 91522
Custom fabricator of architectural ornament & murals: balustrades, columns, capitals & moldings in fiberglass & plaster; fine art reproduction, restoration & trompe l'oeil; interior & exterior decoration.
Write in No. 778

Wassmer Studios
800-923-4234; Fax: 816-283-0653
www.wassmerstudios.com
Kansas City, MO 64116
Manufacturer of interior & exterior ornament: cast-limestone columns, balustrades, cornices, mantels, range hoods; plaster brackets, ceiling domes, medallions, moldings & mantels.
Write in No. 1824

Wiemann Ironworks
918-592-1700; Fax: 918-592-2385
www.wiemanniron.com
Tulsa, OK 74104
Fabricator, finisher & installer of ornamental metalwork: railings, gates, balustrades, lighting, fences, furniture, doors & fixtures; bronze, brass, aluminum, iron, steel & stainless steel; CAD services; national market.
Write in No. 1223

Frederick Wilbur carved this ornate basswood capital.

Wilbur, Frederick - Woodcarver
434-263-4827; Fax: 434-263-5958
www.frederickwilbur-woodcarver.com
Lovingston, VA 22949
Wood carver: ecclesiastical elements, Gothic tracery, reredos & rood screens; columns, furniture, mantels, casing/molding, friezes, rosettes, heraldry, signage & doors; all wood species; original designs; reproductions.
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Woodline Co.
562-436-3771; Fax: 562-436-8891
www.woodlineusa.com
Long Beach, CA 90813
Manufacturer of hand- & machine-carved architectural wood elements: corbels, capitals, columns, balusters, newel posts, rosettes & more; many species; custom designs also available.
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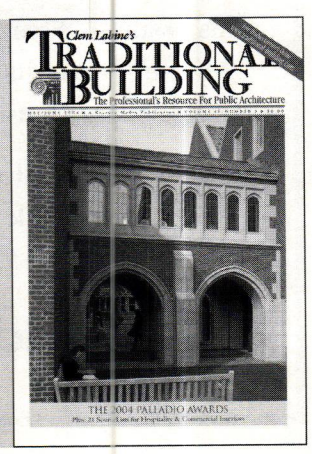

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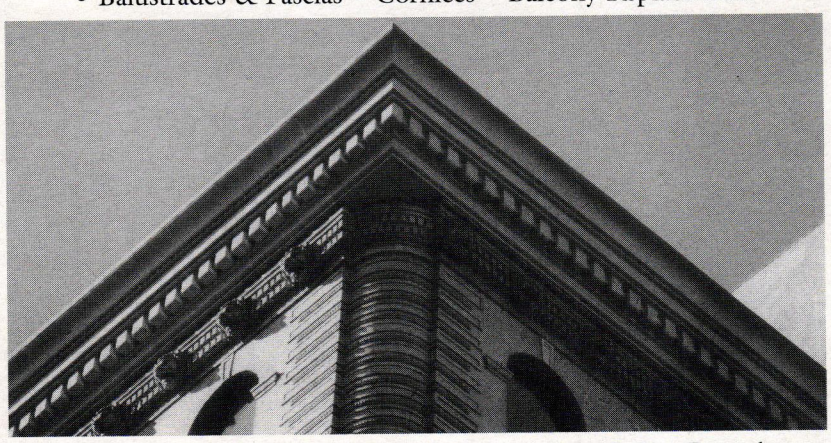

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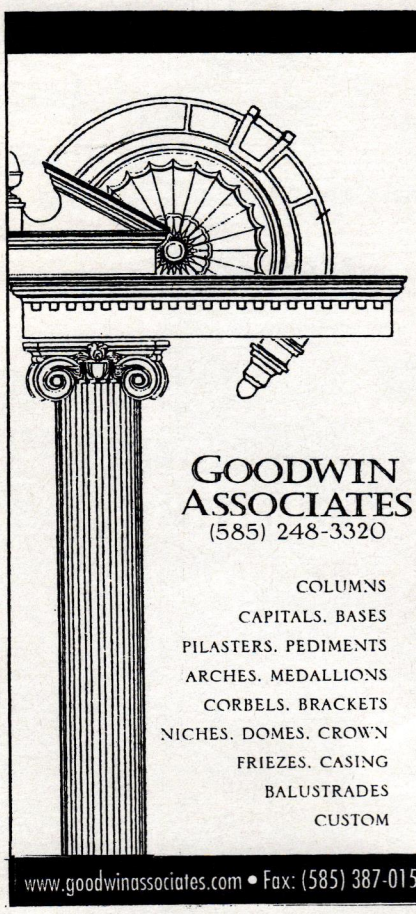

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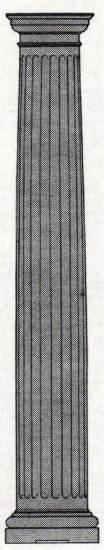

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For details on the Awards program, judging criteria and submission requirements, go to

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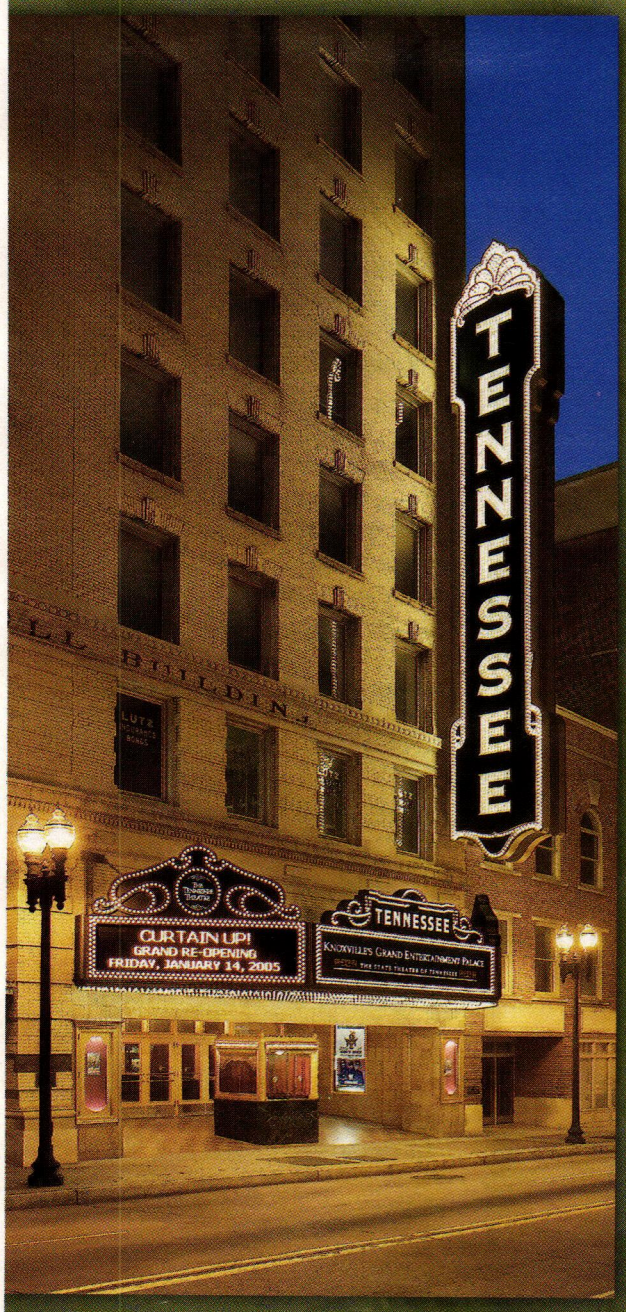
WRITE IN NO. 7777

call for entries

23rd Annual Reconstruction & Renovation Awards



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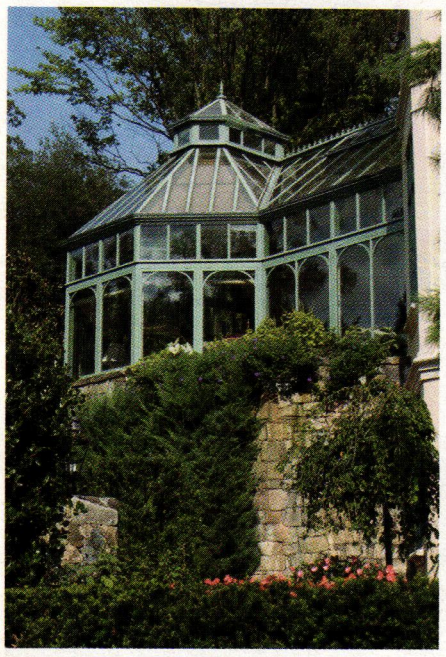
The final deadline for entries to be received by *Building Design & Construction* is July 13, 2006.

Custom Conservatories & Outbuildings

To order product literature, go to www.traditional-building.com and click on "Free Product Literature" or fill out the card at page 34. To order literature from all of the companies listed here, enter No. 9806.

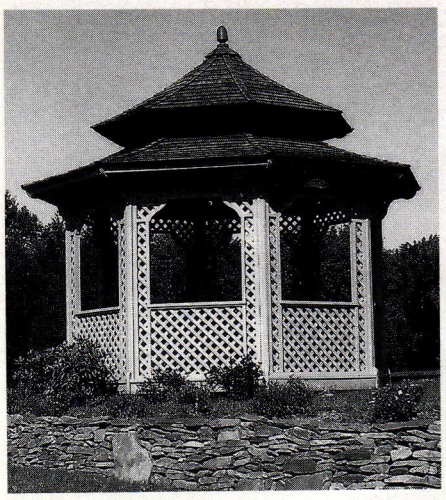


This custom Amdega Conservatory, built on a property in Virginia, was designed to enclose an existing stone terrace.

Amdega Machin Conservatories
800-887-5648; Fax: 540-636-2870
www.amdega.com
Front Royal, VA 22630
Manufacturer & distributor of traditional, handmade English conservatories, skylights & garden summerhouses: custom designs & historical reproductions; engineered to meet building codes for residential & commercial projects.
Write in No. 768

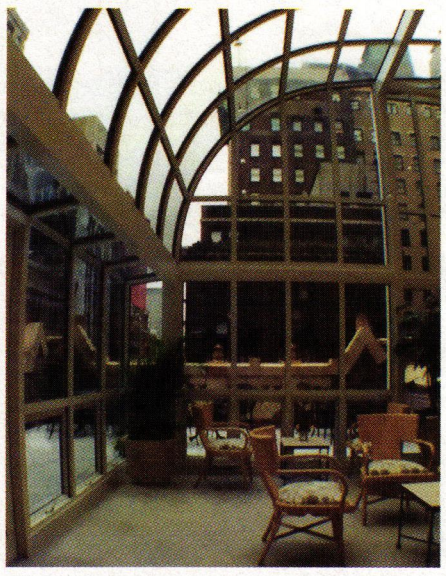
Country Carpenters, Inc.
860-228-2276; Fax: 860-228-5106
www.countrycarpenters.com
Hebron, CT 06248
Manufacturer of pre-cut, New England-style post-&-beam carriage houses: garden sheds & country barns; pre-cut, pre-engineered building kits; cupolas; family owned & operated since 1974; catalog $5.
Write in No. 1439

Dalton Pavilions, Inc.
800-532-5866; Fax: 215-721-1501
www.daltonpavilions.com
Telford, PA 18969
Manufacturer of pre-engineered pavilions & gazebos: western red cedar; prefabricated for ease of installation; ships internationally.
Write in No. 330



Dalton Pavilions designed this 13-ft.-dia. prefabricated Victorian-style pagoda in western red cedar.

Florentine Craftsmen, Inc.
800-876-3567; Fax: 718-937-9858
www.florentinecraftsmen.com
Long Island City, NY 11101
Manufacturer of garden ornament & other ornamental metalwork & stonework: freestanding & wall-mounted fountains, statuary, urns, planters, wrought-iron gazebos, furniture & more; weathervanes; cast stone, cast aluminum & lead.
Call for more information.



Glass House custom designed this conservatory, featuring custom bent glass and aluminum framing, for an upscale lounge in New York City.

Glass House, LLC
800-222-3065; Fax: 860-974-1173
www.glasshouseusa.com
Pomfret Center, CT 06259
Custom fabricator of conservatories & glass-roof systems: glass domes, skylights & solariums; ornamental metal features, custom trim enhancements, copper cladding, true-divided-lite sash & doors; many glazing options.
Write in No. 1870

This custom Haddonstone conservatory was built on a listed Victorian English Gothic rectory.

Glass Houses
c/o Haddonstone (USA) Ltd.
856-931-6336; Fax: 856-931-0040
www.glasshouses.com
Bellmawr, NJ 08031
Manufacturer of conservatories, orangeries & pool houses: individually designed & detailed; integrated design & construction services by qualified architects.
Write in No. 1600

Haddonstone (USA), Ltd.
856-931-7011; Fax: 856-931-0040
www.haddonstone.com
Bellmawr, NJ 08031
Manufacturer of Classical stonework: columns, balustrades, benches, planters, urns, pavers, fountains, gazebos, mantels, statuary & more; cast, reconstructed limestone resembling Portland stone; more than 500 designs.
Write in No. 4020

Mueller Ornamental
Iron Works, Inc.
847-758-9941; Fax: 847-758-9945
www.ornamentaliron.net
Elk Grove Village, IL 60007
Designer & fabricator of ornamental metalwork: doors, fences, gates & stairs; cast iron, forged steel, stainless steel, aluminum & bronze; restoration services; custom work.
Write in No. 229

Oak Leaf Conservatories of York
800-360-6283; Fax: 404-250-6283
www.oakleafconservatories.co.uk
Atlanta, GA 30327
Designer, custom fabricator & installer of authentic British conservatories, orangeries, garden rooms, pool/spa enclosures & glass domes: handcrafted in England; mortise-&-tenon construction, premium-grade mahogany & double glazing.
Write in No. 6860

Oakleaf Conservatories built this garden room to blend with the landscaping.

Private Garden
Greenhouse Systems
413-566-0277; Fax: 413-566-8806
www.private-garden.com
Hampden, MA 01036
Designer & manufacturer of English Victorian greenhouses & custom conservatories: consultation & renovation services.
Call for more information.

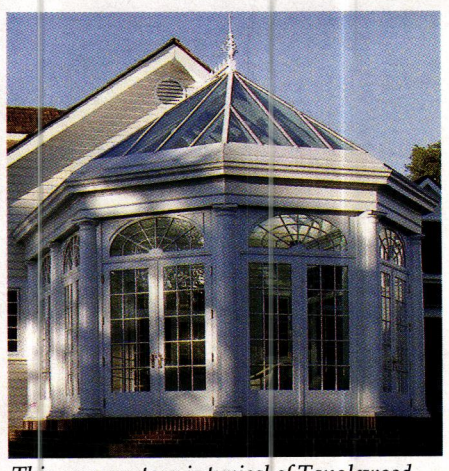
In addition to its residential line, Private Garden also supplies commercial garden greenhouse systems.

Renaissance Conservatories
800-882-4657; Fax: 717-661-7727
www.renaissanceconservatories.com
Leola, PA 17540
Designer, manufacturer & installer of traditional conservatories, contemporary sunrooms, greenhouses, pool enclosures, skylights, roof lanterns & garden windows: handcrafted mahogany & cedar components; custom designs.
Write in No. 378

Renaissance Conservatories custom designs and constructs conservatories in mahogany, redwood and cedar framing.

Southern Timberwrights, LLC
256-582-9299; Fax: 256-582-9247
www.southerntimberwrights.com
Guntersville, AL 35976
Manufacturer & supplier of timber-frame structures: new & antique/salvaged barns, timber frames & gazebos; antique wood flooring, bridges, gates, decking & custom millwork & moldings; restoration work.
Write in No. 1290

Steptoe & Wife Antiques Ltd.
800-461-0060; Fax: 416-780-1814
www.steptoewife.com
Toronto, ON, Canada M6B 1V9
Fabricator of architectural metalwork: cast-iron spiral & straight staircases, railings, gates & grilles; copper, iron, aluminum, steel, brass & bronze fabrication for renovation & restoration projects.
Write in No. 470 for stairs; 9201 for ceilings



This conservatory is typical of Tanglewood Conservatories' structures, which are individually designed, hand crafted and installed.

Tanglewood Conservatories
410-479-4700; Fax: 410-479-4797
www.tanglewoodconservatories.com
Denton, MD 21629
Manufacturer of handcrafted conservatories, greenhouses, gazebos, roof lanterns & pool enclosures: Honduras mahogany; custom designs; fully engineered with stamped shop drawings; storefronts.
Write in No. 8270

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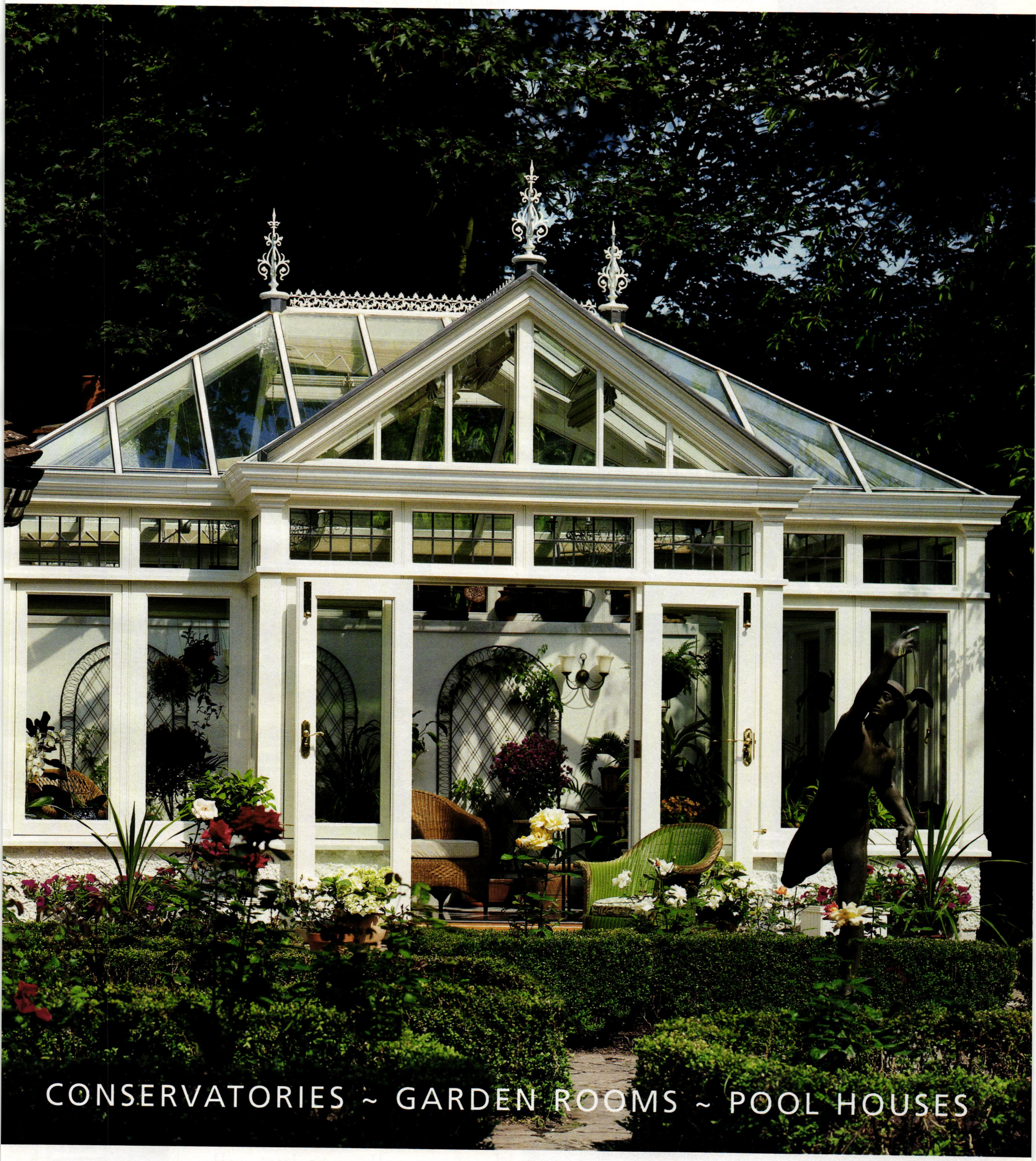

Amdega Conservatories, handmade in England since 1874 from the finest timber and glass.

Amdega and Machin design offices throughout the USA and Canada.
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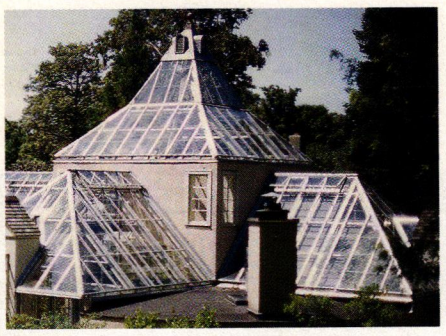

This greenhouse was designed by Under Glass, the exclusive manufacturer of the original Lord & Burnham greenhouses and solariums.

Under Glass Mfg. Corp.
845-687-4700; Fax: 845-687-4957
www.underglassusa.com
High Falls, NY 12440
Manufacturer of aluminum & glass greenhouses, solariums & sunrooms: curved or straight eaves & slim glazing bars to channel condensation; standard & custom models; lean-to & even span, attached or freestanding.
Write in No. 3510

Vermont Timber Frames, Inc.
518-677-8860; Fax: 518-677-3626
www.vtf.com
Cambridge, NY 12816
Manufacturer & distributor of traditional timber-frame products: antique heavy timbers, fabricated trusses & roof systems; Douglas fir, pine, oak, cedar & more; commercial & residential.
Write in No. 8540

Vixen Hill Cedar Products
800-423-2766; Fax: 610-286-2099
www.vixenhill.com
Elverson, PA 19520
Manufacturer of modular cedar products: gazebos, garden houses, pavilions, porch systems, shower kiosks, arbors, cabanas, pergolas, cupolas & benches; simple one-day installation by the non-carpenter; more than 25 years in business.

Wiemann Ironworks
918-592-1700; Fax: 918-592-2385
www.wiemanniron.com
Tulsa, OK 74104
Fabricator, finisher & installer of ornamental metalwork: railings, gates, balustrades, lighting, fences, furniture, doors & fixtures; bronze, brass, aluminum, iron, steel & stainless steel; CAD services; national market.
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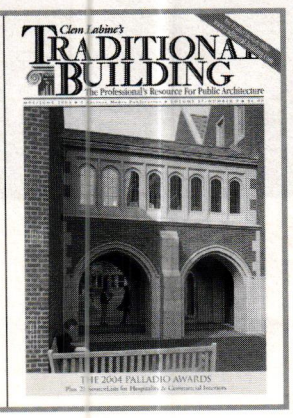

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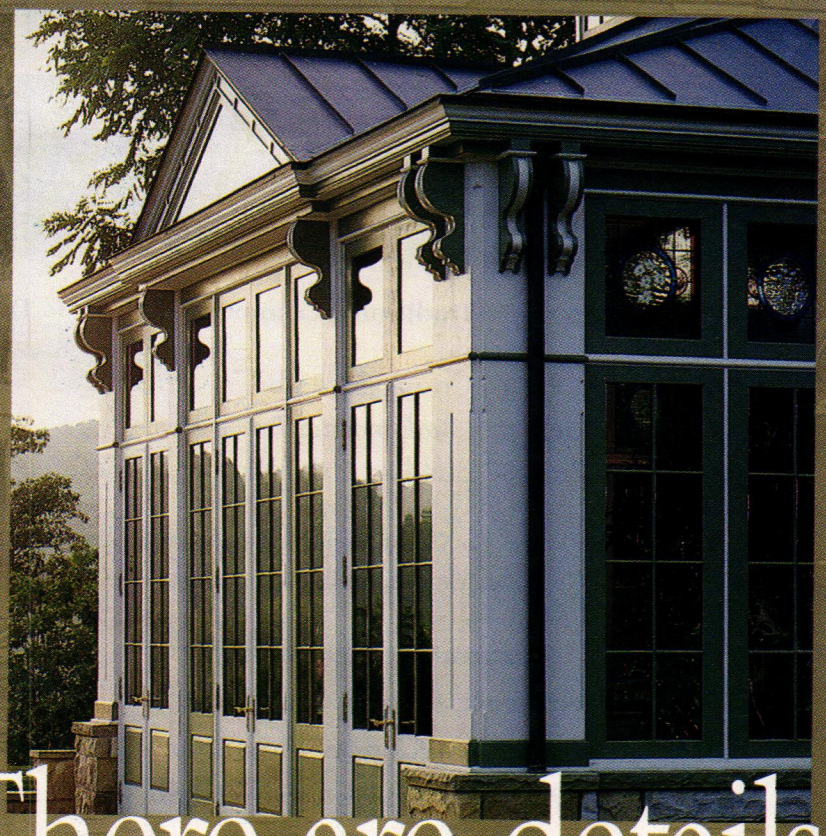

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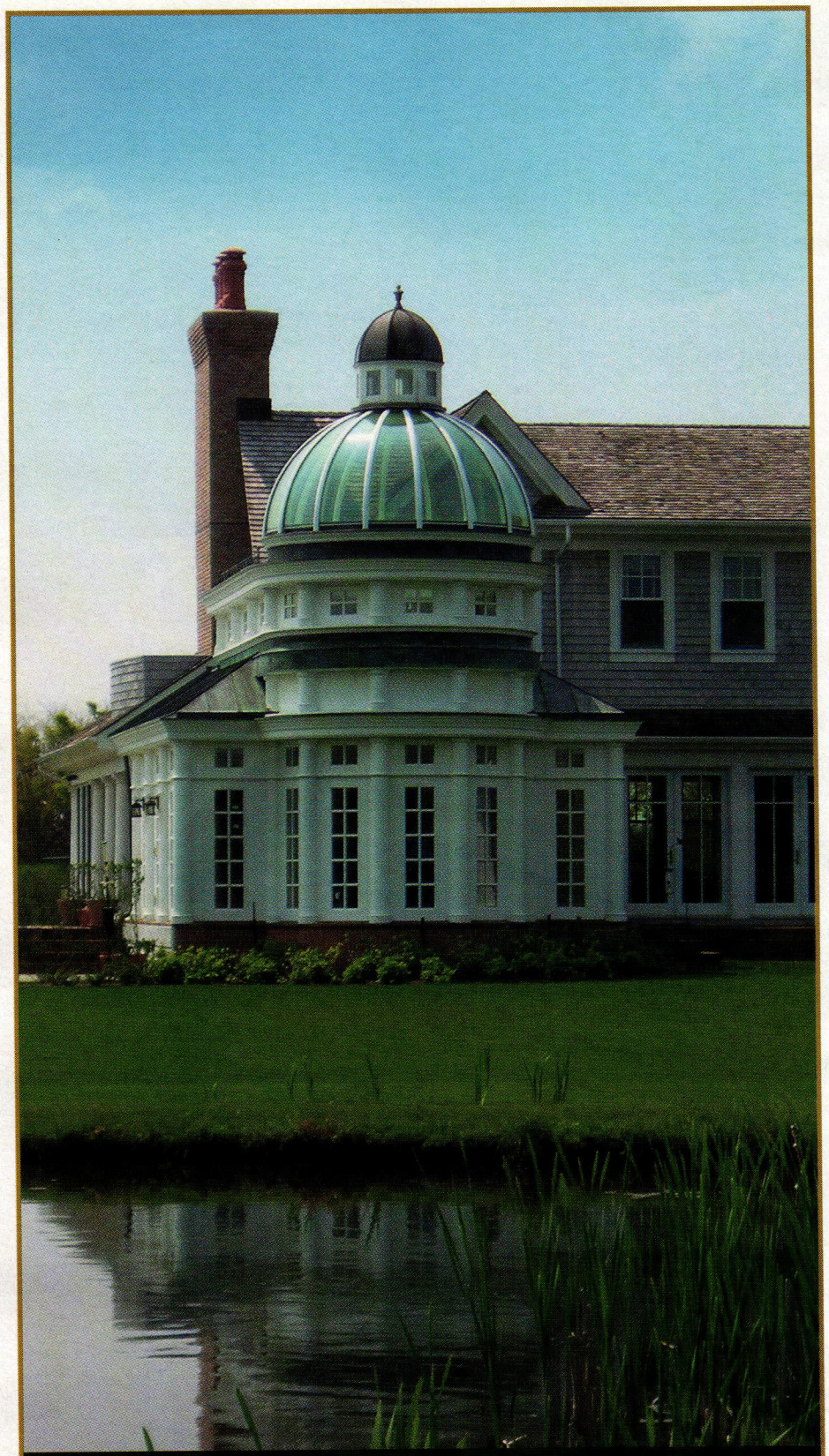

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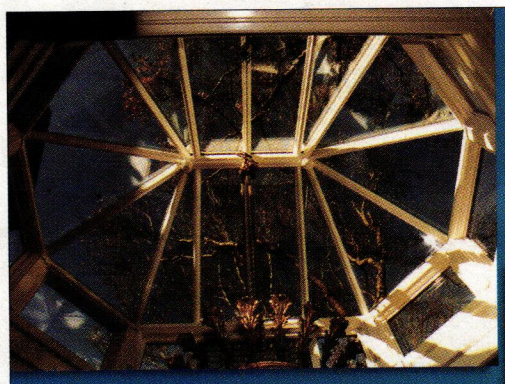

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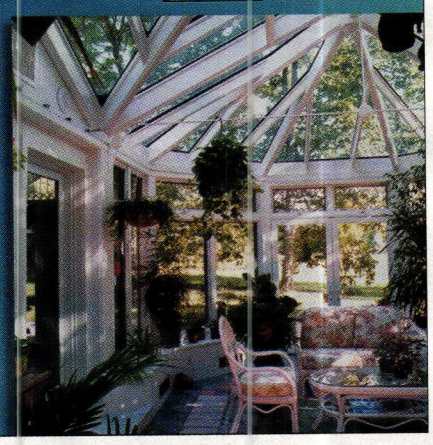

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www.glasshouseusa.com
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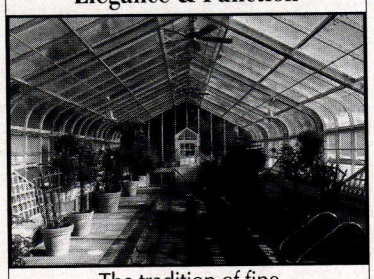

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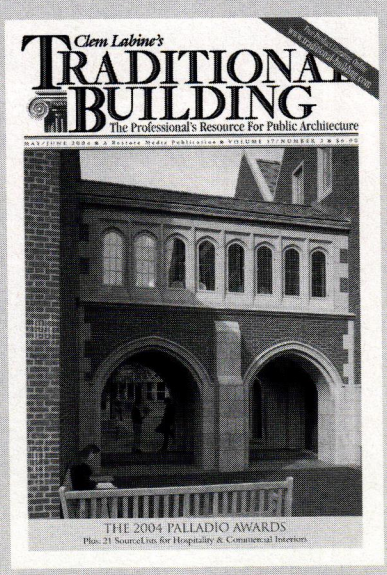

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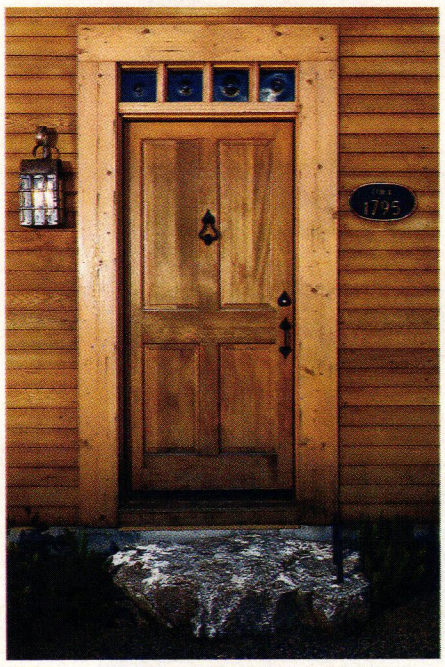

Acorn Forged Iron offers door hardware in early American and Adobe styles.

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www.acornmfg.com
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Adams Architectural Wood Products
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www.adamsarch.com
Eldridge, IA 52748

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www.ailesmillwork.com/restoration
Kent, OH 44240

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Write in No. 1816

Alamo Designs
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www.alamodesigns.com
San Antonio, TX 78216

Custom fabricator of hand-forged iron entryways: grand entrances, entry systems, doors, wine cellar doors, gates, window dressing & iron railings.
Write in No. 1392

This elegant hand-forged-iron entryway with a grapevine motif is the work of Alamo Designs.

Allied Window, Inc.
800-445-5411; Fax: 513-559-1883
www.alliedwindow.com
Cincinnati, OH 45241

Manufacturer & installer of "invisible" storm windows: custom colors, shapes & glazing materials; aluminum; protection from UV & vandalism; interior & exterior; commercial & residential applications.
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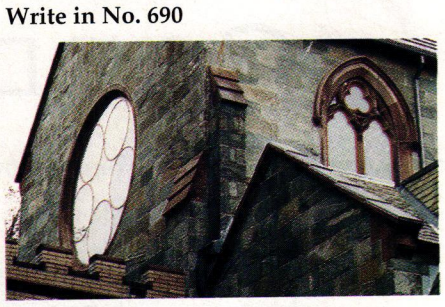

Allied Window installed these 16-in. dia., tempered-3/16-in. shoulder and trefoil units at St. Stephen's Church, Brown University, Providence, RI.

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www.meltonclassics.com
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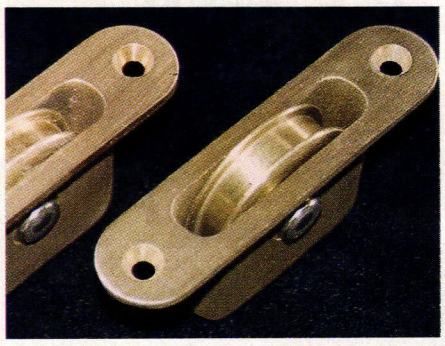

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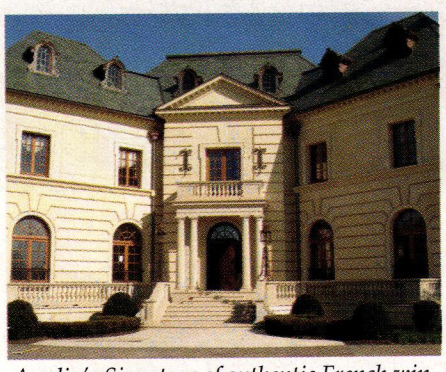

Asselin's Signature of authentic French windows and doors were installed in this building in Georgia.

Asselin Old World Craftsmen, Inc.
404-419-6114; Fax: 404-419-6116
www.asselinusa.com
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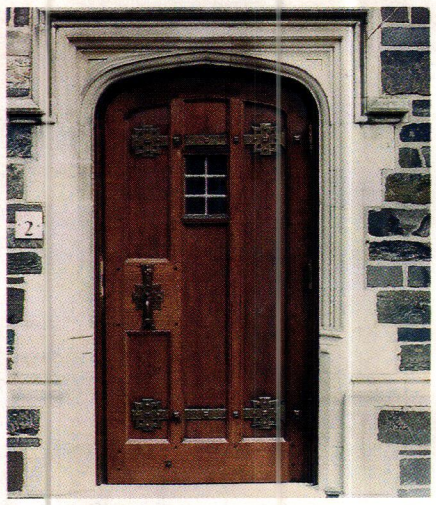
Designer & fabricator of custom handcrafted French windows, doors & shutters: solid French oak & Moabi; interior & exterior; classic hardware options in various finishes; parquet flooring, roof trusses & interior wood paneling.
Write in No. 1569



Ball & Ball fabricates and casts custom hardware.

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www.ballandball.com
Exton, PA 19341

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Center Ossipee, NH 03814

Custom manufacturer & supplier of louvered doors, exterior wood shutters & hardware: duplication & authentic reproduction; any size & style; consultation, design, site visit & installation services.

Bergerson fabricated this arched double door in cedar.

Bergerson Cedar Windows, Inc.
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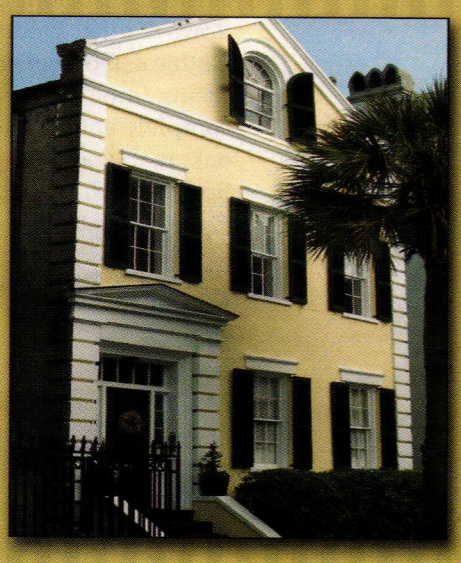

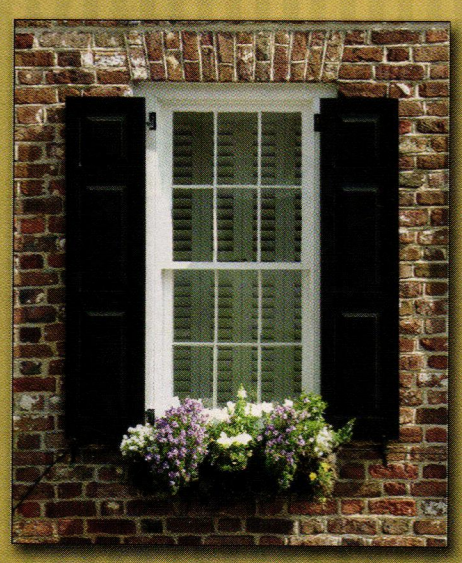

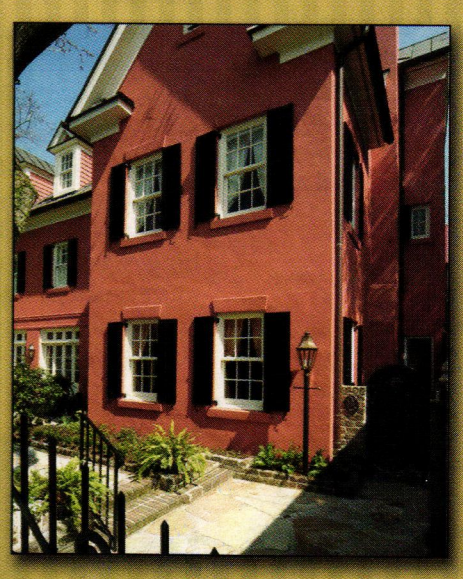

No subject fascinates us more than handcrafted historical shutters. In fact, no one knows the subject better than Artifex. We could go on for hours explaining every nook, cranny, and facet of authentic wood shutters and hand-forged hardware. After all, we learned from the very best. Our parent company, Withers Industries, has been meticulously handcrafting fine wooden shutters for over 30 years.

Over those three decades, Old World craftsmanship and time-honored designs have been the hallmarks of our business. We're obsessed with details, and have elected to use only the finest hand picked exterior grade wood. As for harmony and design, we have a remarkable appreciation for period homes, and can help you understand, select, or design historically accurate shutters, and hardware, that will bring out the natural beauty of any home.

With Artifex, you can count on an experience, and products, second to none. Be a know-it-all, call Artifex today.

Let us work with you to enhance the beauty and value of your home. To learn which products would compliment your home, email photos to photos@artifexshutter.com.

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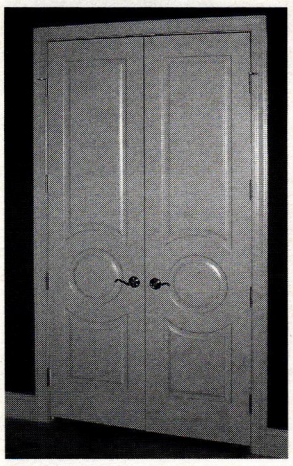


Traditionally styled panel doors made of MDF are available from Bolection Door.

Bolection Door
336-851-5208; Fax: 336-851-5209
www.bolectiondoor.com
Greensboro, NC 27406

Custom fabricator of one-piece wood doors: paneled, carved & complete entryways; raised moldings, radius-top, panel, stile & rail; MDF; fire rated; CAD drawings used to create custom doors.

Bovard Studio, Inc.
800-452-7796; Fax: 641-472-0974
www.bovardstudio.com
Fairfield, IA 52556

Restorer, designer & fabricator of stained-glass windows: wood, aluminum & steel frames; replicates lost historic stained-glass windows; hand-painted & faceted glass & mosaics; hand-painted original art glass; custom wood doors.
Write in No. 7690

Carlson's Barnwood Co.
309-522-5550; Fax: 309-522-5123
www.carlsonsbarnwood.com
Cambridge, IL 61238

Supplier of antique barnwood & salvaged materials: planks, beams, dimensional lumber, re-milled flooring & architectural antiques; pine & oak; complete timber frames & barns; salvaged doors, windows & shutters.
Write in No. 2744

Chautauqua Woods Corp.
716-366-3808; Fax: 716-366-3814
www.cwdoors.us
Dunkirk, NY 14048

Manufacturer of hardwood doors & entryways: over 40 styles ranging from Victorian to contemporary; hand-rubbed finishes; specialty glass; custom designs.
Write in No. 9650

Christopher Thomson Ironworks fabricated these door pulls, which measure 24 in. tall x 3½ in. wide x 3½ in. deep.

Christopher Thomson Ironworks
505-421-2645; Fax: 505-421-2618
www.ctiron.com
Ribera, NM 87560

Designer of hand-forged steel & bronze lighting & other items: Southwestern/rustic & transitional contemporary; gates, chandeliers, sconces, pendants, lanterns & table lamps; UL approved; new designs & custom work.
Write in No. 237

This replica Windsor sash window lock was manufactured by Cirecast.

Cirecast
415-822-3030; Fax: 415-822-3004
www.cirecast.com
San Francisco, CA 94124

Manufacturer of historical builders hardware & ornamental castings: brass hardware for shutters & pocket doors; cremone bolts, doorknobs, hinges, lever handles, grilles & more; custom lighting; replication & refurbishment; catalog $5.
Write in No. 2280

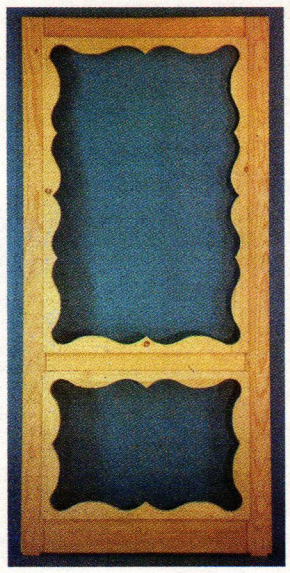
The soundproofing windows in this office building were custom designed, manufactured and installed by Cityproof Windows.

Cityproof Windows
718-786-1600; Fax: 718-786-2713
www.cityproof.com
Long Island City, NY 11101

Manufacturer & installer of custom-made interior window systems: aluminum, storm/screen combo, arched & custom shapes; mechanical fastenings; acrylic, lexan, UV-resistant, standard, low-E, tempered, laminated & etched-glass glazing.
Write in No. 2390

Coppa Woodworking
310-548-4142; Fax: 310-548-6740
www.coppawoodworking.com
San Pedro, CA 90731

Manufacturer of wood screen doors & windows: Douglas fir, mahogany, pine & oak; more than 165 styles; any size; stained or painted; Adirondack furniture kits, benches & bar stools.
Write in No. 9600



Coppa Woodworking offers a wide variety of wood screen doors in 20 different stains.

Cornelius Enterprises
303-463-0236; Fax: 303-463-0237
www.richdoor.com
Wheat Ridge, CO 80033

Custom fabricator of hand-carved doors: pictorial; custom designed & carved.
Write in No. 526

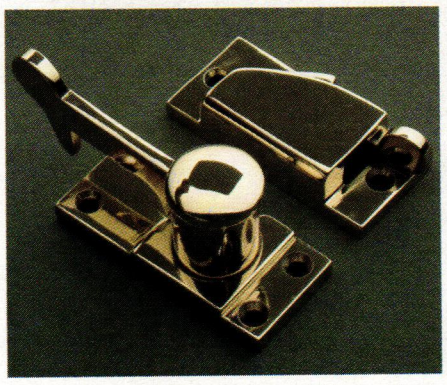
This rugged door pull is typical of the hand-crafted Arts and Crafts-style hardware available from Craftsmen Hardware.

Craftsmen Hardware Co.
660-376-2481; Fax: 660-376-4076
www.craftsmenhardware.com
Marceline, MO 64658

Supplier of Arts & Crafts-style hard-ware: door, window, cabinet & drapery hardware; hand-hammered copper.
Write in No. 6980

Crown City Hardware Co.
626-794-1188; Fax: 626-794-2064
www.crowncityhardware.com
Pasadena, CA 91104

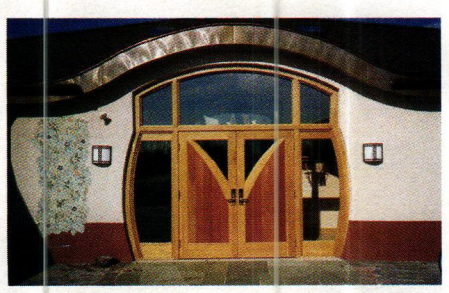
Supplier of hardware: casement fasteners & adjusters; sash locks, lifts, balances & weights; screen fasteners & hangers; glass knobs, bin pulls, switch plates & more; iron, brass, glass & crystal; Victorian & Arts-&-Crafts styles.
Write in No. 432



This oil-rubbed bronze Boston Window Lock by Crown City Hardware has two spring-loaded parts, a 2-3/16x1-in. catch base, and a 2-5/8-in. arm.

D.J.A. Imports, Ltd.
718-324-6871; Fax: 718-324-0726
www.djaimports.com
Bronx, NY 10466

Distributor of architectural metal components: gates, railings, stairs, gate & door hardware, machinery for the metal industry & specialty items; stainless steel & aluminum; reproductions; riveted gates & railings, operators & more.
Write in No. 495



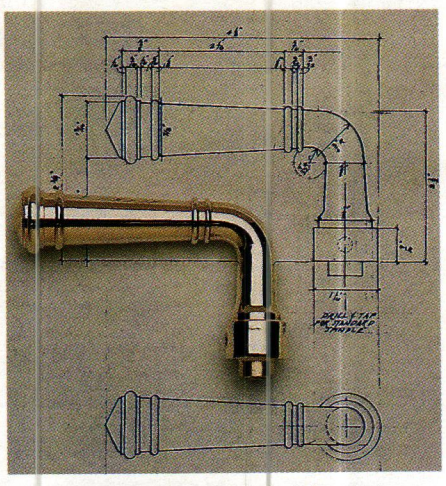
Entryways are available from Drums Sash & Door in pine, red oak, birch and Spanish cedar.

Drums Sash & Door Co., Inc.
570-788-1145; Fax: 570-788-3007
www.drumssashanddoor.com
Drums, PA 18222

Custom fabricator of wood windows & other wood products: Gothic & Cottage styles; casework, casing/molding, paneled doors & complete entryways; mantels; pine, oak, mahogany, poplar, birch & Spanish cedar.
Write in No. 1463

E.R. Butler & Co.
212-925-3565; Fax: 212-925-3305
www.erbutler.com
New York, NY 10012

Custom manufacturer, importer & distributor of door, window & furniture hardware: brass, bronze, nickel/silver, aluminum, stainless steel & wrought iron; hardware repair & custom finishes.
Write in No. 2260



This brass handle is typical of the Early American door, window and furniture hardware manufactured by E.R. Butler.

Ebenisterie d'Art Bertoli
404-841-4818; Fax: 404-841-4819
www.bertoli.fr
Atlanta, GA 30327

Custom fabricator of wood doors: interior & exterior; historical replicas.

- Quality Materials
- Custom Profiles
- Superior Detailing
- Sash or Complete Units
- Weight Pulley Balance Systems
- Custom Casements
- Custom Single Hung
- Custom Double Hung
- True Divided Lite
- Simulated Divided Lite
- Custom Radius or Lineal Casting

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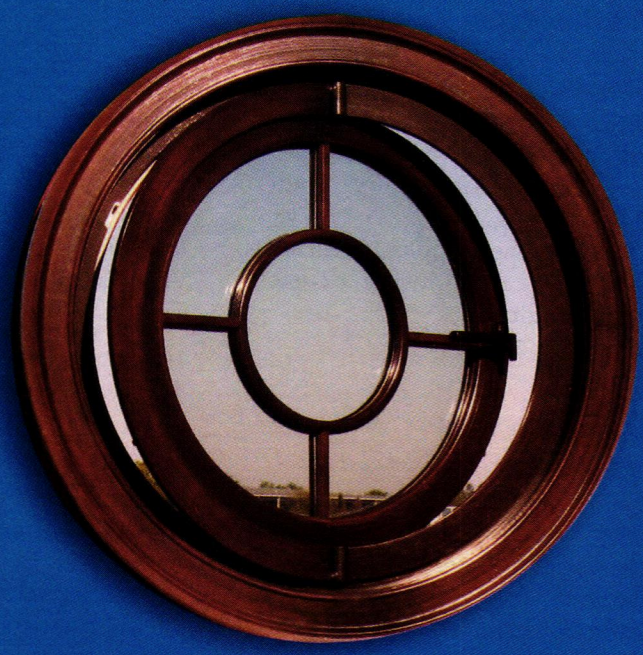

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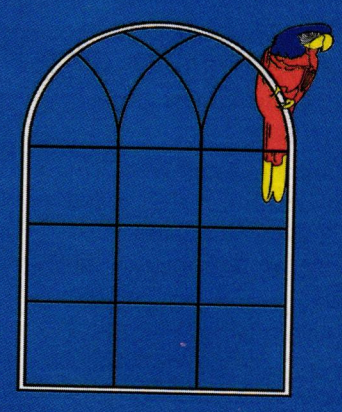
www.parrettwindows.com
info@parrettwindows.com



WRITE IN NO. 3003

European Hardware & Finishes/Gerber Hinge Co.
800-643-7237; Fax: 818-717-5016
www.gerberhinge.com
Canoga Park, CA 91304
Importer & distributor of ornamental hardware: cabinet, door & window; cremone bolts/espagnolettes; iron, bronze & brass; from France, Italy & England; special finishes upon request.
Write in No. 2540

European Hardware & Finishes/Gerber Hinge supplies French-style hinges and other hardware.

European Iron Works
805-967-8076; Fax: Same as phone
www.europeanironworks-sb.com
Goleta, CA 93117
Designer & fabricator of hand-forged & traditionally joined architectural products: railings, balconies, gates, wine cellar & entry doors, fireplace screens, lighting & furniture; iron, bronze, copper, aluminum & other materials.
Write in No. 3031

Fagan's Forge
860-928-4020; Fax: 860-963-0130
www.fagansforge.com
Pomfret Center, CT 06259
Supplier of hand-forged door hardware: reproduced from firm's collection of 18th-century wrought-iron latches, hinges, bolts, hooks, pulls & more; strap hinges for barn doors; shutter dogs; iron trammel hooks for fireplace cranes.
Write in No. 1010

Flickinger Glassworks, Inc.
718-875-1531; Fax: 718-875-4264
www.flickingerglassworks.com
Brooklyn, NY 11231
Fabricator of bent glass: for curved brownstone windows, cabinetry, lighting & more; reproductions, complex shapes & custom molds; lighting restoration.
Write in No. 2852

Grabill Windows & Doors
810-798-2817; Fax: 810-798-2809
www.grabillwindow.com
Almont, MI 48003
Custom manufacturer of solid-wood, bronze & aluminum-clad windows & doors: lift & slide doors, casements, tilt-turn, European in-swing & historically accurate double-hung windows with weight-&-pulley operation; residential & commercial.
Write in No. 1910

Grabill incorporated leaded-glass grilles and screens into these arched-top mahogany French doors.

Guerin, P.E.
212-243-5270; Fax: 212-727-2290
www.peguerin.com
New York, NY 10014
Manufacturer of high-end handcrafted brass & bronze hardware & accessories: for doors, windows, furniture, objets d'art & bathroom accessories; handcrafted sconces & residential lighting fixtures.
Write in No. 1166

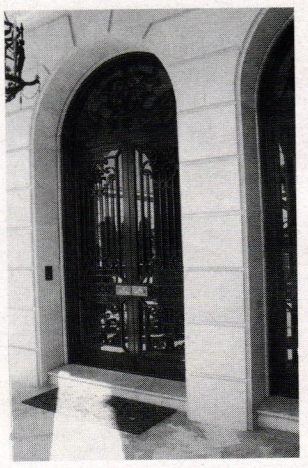
Heather & Little, Ltd.
800-450-0659; Fax: 905-475-9764
www.heatherandlittle.com
Markham, ON, Canada L3R 0H1
Fabricator & supplier of sheet-metal roofing & specialty architectural sheet metal: finials, cornices, leader heads, cresting, canopies, shingles, siding, cupolas, steeples, domes & snowguards; reproductions; custom bronze windows.
Write in No. 2470

Hiles Plating Co.
816-421-6450; Fax: 816-421-1132
www.hilesplating.com
Kansas City, MO 64108
Restorer of antique hardware: custom finishes on new hardware; custom-finish matching service; metal polishing & replating; gold plating of tabernacles & church wares.
Write in No. 1604

Historic Doors by Hendricks fabricated this Federal-style door with true-divided-lite transoms and sidelites.

Historic Doors By Hendricks
610-756-6187; Fax: 610-756-6171
www.historicdoors.com
Kempton, PA 19529
Custom fabricator of wood windows & doors: casing; circular & crown moldings; complete entryways; wood storefronts; restoration & period-style construction.
Write in No. 3570

Historical Arts & Casting, Inc.
800-225-1414; Fax: 801-280-2493
www.historicalarts.com
West Jordan, UT 84088
Designer & custom fabricator of ornamental metalwork: doors, windows, hardware, stairs, balustrades, registers, fences, lighting, gutters, columns, weathervanes, planters & more; iron, bronze, aluminum & steel; restoration services.
Write in No. 1210



This 11-ft. custom bronze door was manufactured by Historical Arts & Casting with a patina designed to age gracefully in any climate.

House of Antique Hardware
888-223-2545; Fax: 503-233-1312
www.houseofantiquehardware.com
Portland, OR 97214
Manufacturer & supplier of door & furniture hardware & accessories: rare & ornate hardware; 1860s-1930s styles; switch plates; grilles & registers; historical reproductions.
Write in No. 1096

Iron Gallery Store, Ltd.
714-493-1012; Fax: 714-921-0561
www.theirongallerystore.com
Anaheim, CA 92817
Custom designer & manufacturer of wrought-iron elements: doors, gates, staircase railings, residential & commercial lighting & more; Mediterranean & Arts-&-Crafts styles.
Write in No. 1661

J. Sussman, Inc.
718-297-0228; Fax: 718-297-3090
www.jsussmaninc.com
Jamaica, NY 11433
Manufacturer of aluminum windows: round, rose, arch, Gothic & segmented for stained glass; double- & triple-glazed frames for art-glass installation & protection; churches, chapels, mausoleums, synagogues & memorial buildings.
Write in No. 4830

J.S. Benson Woodworking & Design
800-339-3515; Fax: 802-254-4874
www.jsbensonwoodworking.com
Brattleboro, VT 05301
Custom fabricator of historical windows & doors: European window & wall systems; 7/8-in. TDL warm-edge glazing; architectural bronze cladding; custom hardware; restoration & reproduction services; institutional & residential.
Write in No. 8930

Kayne and Son Custom Hardware's extensive line of forged and cast hardware includes this thumb-latch door hardware.

Kayne and Son Custom Hardware, Inc.
828-667-8868; Fax: 828-665-8303
www.customforgedhardware.com
Candler, NC 28715
Manufacturer of forged- & cast-metal hardware: strap, H, HL, butterfly & butt hinges; thumb-latch locksets, gate hardware, shutter dogs & more; fireplace tools; bathroom accessories & kitchen equipment; restoration services.
Call for more information.

Kingsland Co. Shutters
860-542-6981; Fax: 860-542-1752
www.kingsland-shutters.com
Norfolk, CT 06058
Manufacturer of exterior shutters in Honduras mahogany: louvered, raised paneled, cutouts & reproductions; mortise-&-tenon construction; copper caps, fixed control rods & hardware; paneled & louvered arched tops.
Write in No. 196

Kingsland Shutters custom manufactures a variety of shutters in Honduras mahogany.

Kirkpatrick Ltd.
704-658-1016; Fax: 704-998-3558
www.kirkpatrick.co.uk
Mooresville, NC 28117
Manufacturer of window, door, cabinet, gate & bathroom hardware: iron gate latches, hinge fronts, cremone bolts & more; powder coated black & pewter & brass; established in 1855.
Write in No. 1806

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WRITE IN NO. 432

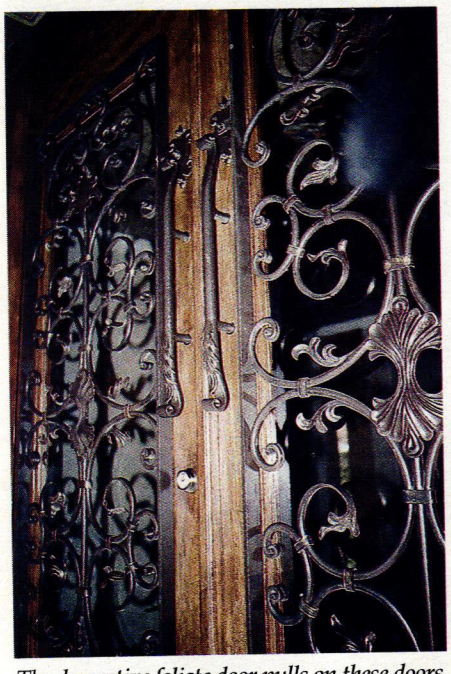
This wheel-cut glass door panel for a building in New Hampshire was fabricated by Lehmann Glass.

Lehmann Glass Studio
510-465-7158; Fax: Same as phone
www.lehmannglass.com
Oakland, CA 94607

Custom manufacturer of wheel-cut art-glass panels: etched & beveled art glass; door & lighting-fixture glass; historic & modern designs; historical reproductions.
Write in No. 4730

Leonard Metal Art Works,Inc.
631-287-5535; Fax: 631-287-5548
www.lmaw.us
Southampton, NY 11968

Custom fabricator of gates, fences, doors, stair railings, balustrades, window grilles & light fixtures; custom reproductions & restoration; bronze, iron, stainless steel & aluminum.
Write in No. 1819



The decorative foliate door pulls on these doors were custom fabricated by Leonard Metal.

Liberty Brass Turning Co.
718-784-2911; Fax: 718-784-2038
www.libertybrass.com
Long Island City, NY 11101

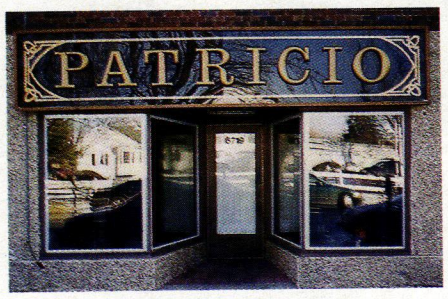
Manufacturer of metal components: drawer pulls, window hardware, lamp finials, couplings, turned bar stock knobs, spacers, balls, check rings & furniture & display fittings; brass, aluminum & stainless steel; custom & stock.
Write in No. 8440

Maguire Iron Corp.
510-234-7569; Fax: 510-232-7519
www.maguireironcorporation.com
Richmond, CA 94801

Manufacturer & supplier of traditional door, cabinet, window, shutter, furniture, gate & mailbox hardware: knobs & levers with compatible locks with various backsets & functions; hinges, pull handles, escutcheons, cremone bolts & more; wrought iron, pewter, brass & more; 17th-20th century; custom work.
Write in No. 7600

Maine Glass
888-825-6975; Fax: 847-825-6977
www.maineglass.com
Park Ridge, IL 60068

Distributor of interior insulating storm windows: fixed, sliding & counterbalanced double hung; vinyl & aluminum; custom shapes, sizes, colors & glazings; historic, landmark, acoustic & commercial projects.
Write in No. 634



Maine Glass supplied the insulating interior storm windows for this commercial storefront.

Melron Corp.
715-359-7001; Fax: 715-359-5951
www.melroncorp.com
Schofield, WI 54476

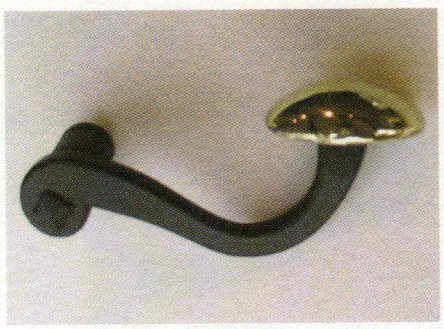
Designer & manufacturer of window hardware: custom non-ferrous sand casting, machining & fabrication services.
Write in No. 1800

Midwest Marketing
800-638-4332; Fax: 309-688-8894
www.midwestmarketinginc.com
Peoria, IL 61614

Manufacturer of interior storm windows: Mag-Tite magnetic windows create thermal barrier, providing weather & noise insulation; solar control window shades & window film.
Write in No. 1804

Mitchell, D.C.
302-998-1181; Fax: 302-994-0178
www.dcmitchell.org
Wilmington, DE 19804

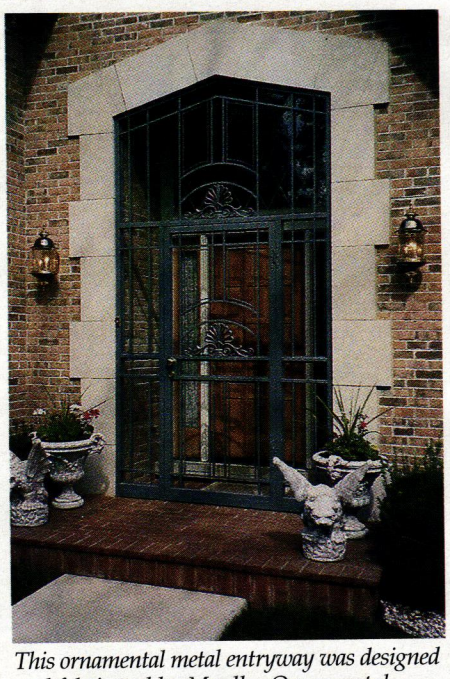
Manufacturer of reproduction period door & shutter hardware: box locks, strap hinges, shutter tie backs & more.



D.C. Mitchell carries an extensive line of hand-forged and hand-cast door hardware.

Mueller Ornamental Iron Works, Inc.
847-758-9941; Fax: 847-758-9945
www.ornamentaliron.net
Elk Grove Village, IL 60007

Designer & fabricator of ornamental metalwork: doors, fences, gates & stairs; cast iron, forged steel, stainless steel, aluminum & bronze; restoration services; custom work.
Write in No. 229



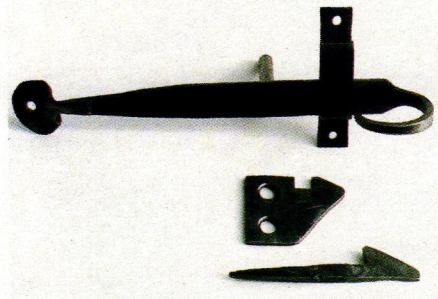
This ornamental metal entryway was designed and fabricated by Mueller Ornamental.

Neumann Studios
802-251-9901; Fax: By request
www.neumannstudios.com
Brattleboro, VT 05301

Designer, fabricator & installer of hand-painted stained-glass windows: techniques such as acid-etching; slumped-glass lamps & domes; restoration; for inns, restaurants, libraries, homes & places of worship.
Write in No. 1448

Old Smithy Shop
603-672-4113; Fax: Same as phone
www.oldsmithyshop.com
Brookline, NH 03033

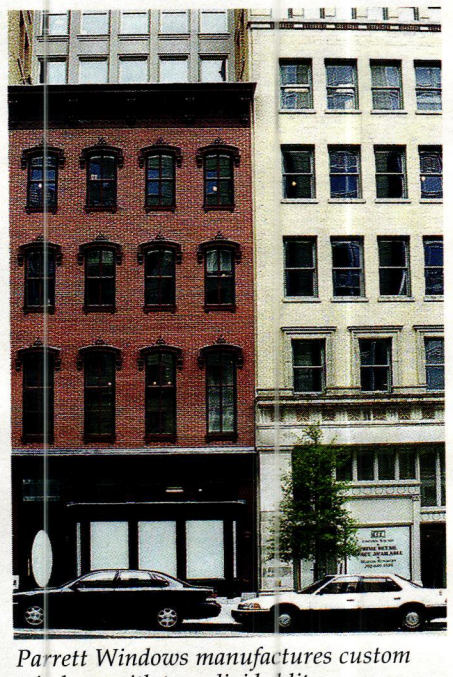
Custom fabricator of hand-forged Early American hardware: Suffolk & Norfolk latches & pulls; pintle strap hinges & H & H-L hinges & cabinet latches; window, gate & barn hardware.
Write in No. 5110



Elegant Early American closet assemblies, created in the forge of Old Smithy Shop, are available in three finishes with a loop or a knob.

Parrett Windows
800-541-9527; Fax: 715-654-6555
www.parrettwindows.com
Dorchester, WI 54425

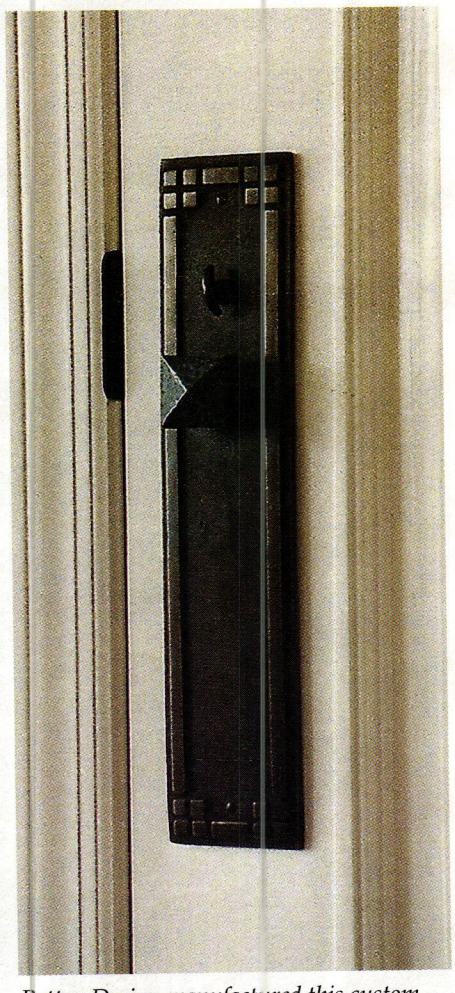
Manufacturer of handcrafted custom wood & clad-wood windows: fixed or operating; any geometric shape; numerous wood species; made to exact specifications; complete finishing capabilities; certified & tested; nationwide distribution.
Write in No. 3003



Parrett Windows manufactures custom windows with true-divided lites.

Patten Design
714-894-0131; Fax: 714-894-0031
www.pattendesign.com
Huntington Beach, CA 92649

Manufacturer of door & window hardware: knobs, levers, rosettes, escutcheons, cremones, pulls, hinges, medallions & more; aluminum, bronze, brass & stainless steel; all periods & styles on a custom basis.
Write in No. 1520



Patten Design manufactured this custom Arts-&-Crafts door hardware.

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WRITE IN NO. 1166

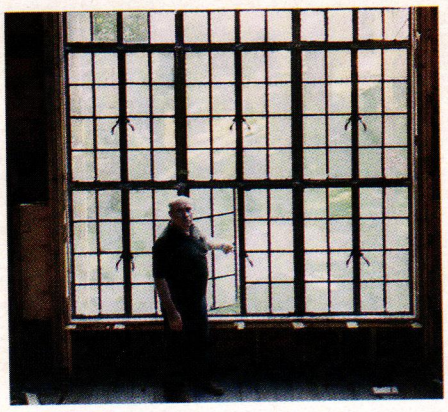
Re-View
816-741-2876; Fax: 816-746-9331
www.re-view.biz
N. Kansas City, MO 64116
Full-service manufacturer & supplier of historic wood & metal windows & doors: all wood species; wood- & steel-window restoration; abatement, installation & finishing services; commercial projects nationwide.
Write in No. 744

Re-View restored the windows and installed custom wood storm windows at the Sioux City Public Museum in Sioux City, IA.

Rejuvenation
888-401-1900; Fax: 800-526-7329
www.rejuvenation.com
Portland, OR 97210
Manufacturer of authentic reproduction lighting: more than 500 interior & exterior styles; painted-glass shades; door & window hardware.
Write in No. 7630

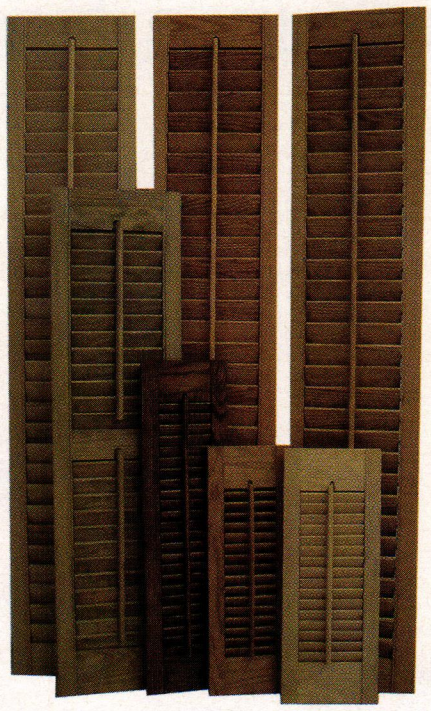
Scottsdale Art Factory
800-292-0008; Fax: 800-292-0046
www.artfactory.com
Scottsdale, AZ 85260
Custom manufacturer of furniture, grand entrance doors, gates, lighting & hardware: handmade in exotic woods, stone, copper, iron & leathers; more than nine decades of craftsmanship.
Write in No. 1625

Seekircher Steel Window Repair Corp.
914-734-8004; Fax: 914-734-8009
423 Central Ave.
Peekskill, NY 10566
Restorer of steel casement windows & doors: all work done on-site; repaired & restored steel windows & doors at Frank Lloyd Wright's Fallingwater; vintage steel casement windows & doors available; more than 6,000 windows repaired annually.
Write in No. 3590



Seekircher Steel Window Repair restores and repairs steel casement windows.

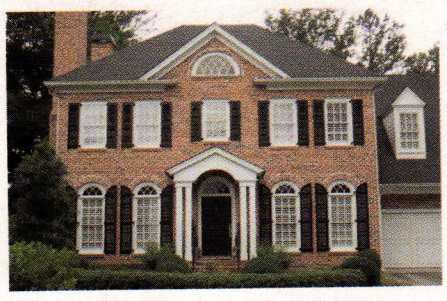
Shuttercraft, Inc.
203-245-2608; Fax: 203-245-5969
www.shuttercraft.com
Madison, CT 06443
Manufacturer of interior & exterior wood shutters: all sizes; movable & fixed louvers, raised panels, board-&-batten & cut-outs; cedar, poplar, basswood & red oak; hardware; painting services.
Write in No. 1321



Red oak shutters from Shuttercraft are available in plantation wide-louver and traditional narrow-louver styles.

Signon USA
866-744-6661; Fax: 718-485-8400
www.signonusa.com
Brooklyn, NY 11212
Supplier of ornamental metal stair parts, stair railings, fences & gates: Classical & contemporary designs; works with architects, designers, blacksmiths & homeowners; door hardware; curtain rods.
Write in No. 191

Southern Shutter Co.
800-344-8590; Fax: 334-264-6001
www.southernshutter.com
Montgomery, AL 36102
Manufacturer of interior & exterior shutters & ventilators: raw & prefinished; basswood interior, cedar exterior; more than 20 standard designs with many variations; custom work; exotic woods; vintage hardware; nationwide.
Write in No. 8014



The Southern Shutter Co. manufactures exterior shutters in seven different styles, including Colonial, raised panel and louvered.

Steptoe & Wife Antiques Ltd.
800-461-0060; Fax: 416-780-1814
www.steptoewife.com
Toronto, ON, Canada M6B 1V9
Fabricator of architectural metalwork: cast-iron spiral & straight staircases, railings, gates & grilles; copper, iron, aluminum, steel, brass & bronze fabrication for renovation & restoration projects.
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Sun-Dor-Co handcrafts period historic doors to customer specifications for commercial and residential projects.

SUN-DOR-CO
866-338-8013; Fax: 316-212-0559
www.sundorco.com
Newton, KS 67114
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Write in No. 5720

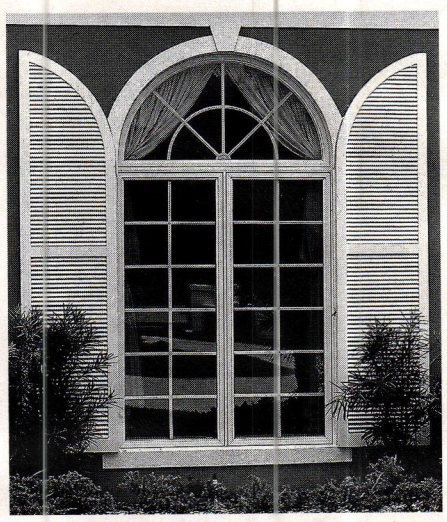
The Golden Lion
310-398-2848; Fax: 310-398-0605
www.thegoldenlion.com
Los Angeles, CA 90066
Importer of European hardware & accessories in hand-forged iron & bronze: window & door hardware; bronze fountain spouts; traditional & period styles.
Write in No. 115

This rod-iron rim lock, consisting of 70 pieces, was handcrafted by The Golden Lion.

The Nanz Company
212-367-7000; Fax: 212-367-7375
www.nanz.com
New York, NY 10013
Designer & manufacturer of period door & window hardware: Gothic, Moderne & other styles; metal finishing; consultation, specification & restoration services.
Call for more information.

The Nanz Company offers door hardware in dozens of standard and custom-plated and patinated finishes, including burnished nickel, dark oxidized bronze, silver plated, burnished gold and antique brass.

The Shutter Depot
706-672-1214; Fax: 706-672-1122
www.theshutterdepot.com
Greenville, GA 30222
Supplier of shutters & shutter hardware: 2 1/2-in. movable, raised-panel & fixed louvers; interior & exterior; finished & unfinished; custom & stock.
Write in No. 6830



The Shutter Depot supplies custom and stock shutters as well as shutter hardware.

The Wood Factory
936-825-7233; Fax: 936-825-1791
111 Railroad St.
Navasota, TX 77868
Custom fabricator of millwork: monumental stairs, brackets, finials, spindles, gazebo parts, custom turnings & screen doors; all wood species; interior & exterior; matches custom parts & workings from renderings; reproductions.
Write in No. 7120

This screen door was custom manufactured by The Wood Factory.

Timberlane Woodcrafters, Inc.
800-250-2221; Fax: 215-616-0753
www.timberlaneshutters.com
North Wales, PA 19454
Manufacturer of exterior wooden shutters: handcrafted with mortise-&-tenon, wood-peg joinery; custom built to order; hand-forged period-accurate hardware; for historic preservation, renovation & new home construction; free catalog.
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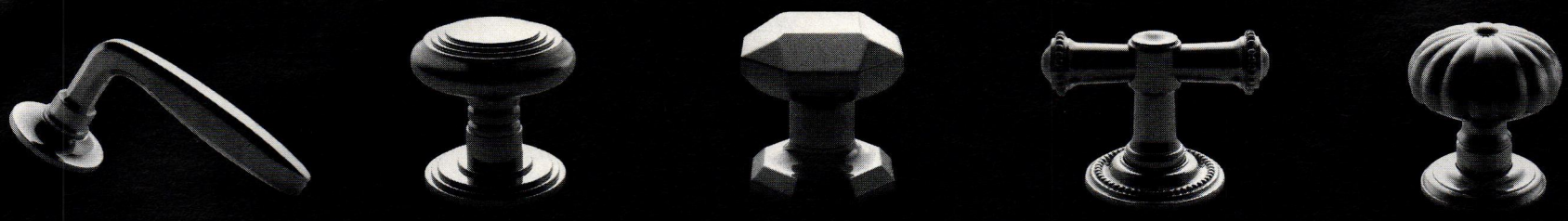

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Nº 1310 OGIVAL KNOB WITH BOSS - EIGHT SIZES. Nº 1070 INTERNATIONAL STYLE KNOB - SIX SIZES. Nº 1005 STEPPED ELLIPTICAL KNOB. Nº 1992 EDWARDIAN RIBBED KNOB. Nº 2013P NEOCLASSIC GEORGIAN LEVER - THREE SIZES.

Nº 1087 TRADITIONAL ROUND KNOB - EIGHT SIZES. Nº 2006 WALTER GROPIUS BAUHAUS LEVER. Nº 1085 GEORGIAN ROPED KNOB - EIGHT SIZES. Nº 1305B BEADED ROUND KNOB - EIGHT SIZES. Nº 1205 GEORGIAN KNOB - EIGHT SIZES.

Nº 1018 SIMPLE ROUND KNOB - EIGHT SIZES. Nº 1084 ENGLISH RIBBED KNOB - EIGHT SIZES. Nº 1014 DOMED GEORGIAN KNOB - EIGHT SIZES. Nº 2533 RENAISSANCE REVIVAL LEVER. Nº 1088 RINGED GEORGIAN KNOB - EIGHT SIZES.

Nº 2175 HAUSSMANN LEVER. Nº 1030 MODERNE AESTHETIC KNOB - FIVE SIZES. Nº 1003 GEORGIAN KNOB - EIGHT SIZES. Nº 1118 TRADITIONAL KNOB WITH CENTER BULL'S EYE - EIGHT SIZES. Nº 3004 OLIVE KNUCKLE HINGE.

Nº 1019 TRADITIONAL ELLIPTICAL KNOB - FIVE SIZES. Nº 1224 TRIPLE-ROPED GEORGIAN KNOB - EIGHT SIZES. Nº 2004 FRENCH MODERNE LEVER - THREE SIZES. Nº 1128 MODERN MINIMALIST KNOB. Nº 1201 COMPLEX SPHERICAL KNOB.

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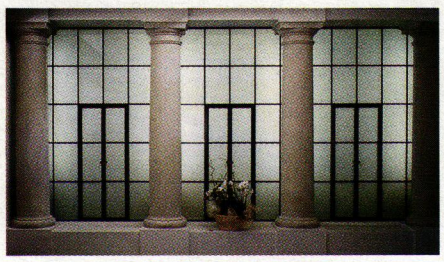

Torrance Steel Window produced the steel casements for this columned opening.

Torrance Steel Window Co.
310-328-9181; Fax: 310-328-7485
www.torrancesteelwindow.com
Torrance, CA 90501

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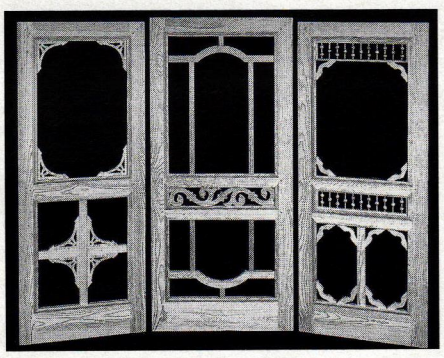

Vintage Woodworks specializes in Victorian millwork.

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www.vintagewoodworks.com
Quinlan, TX 75474

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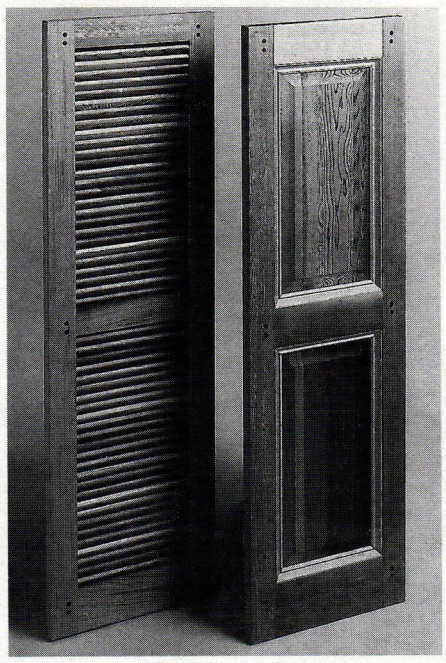

Vixen Hill Shutters custom fabricates a variety of shutters from old-growth red cedar.

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www.vixenhill.com
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Custom fabricator of shutters: blind-pocketed & teak-pegged (no glue); old-growth red cedar; more than 26 styles; pair sizes to 6x10 ft.; shutter hardware.
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www.wagnerfoundry.com
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Write in No. 1062

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918-592-1700; Fax: 918-592-2385
www.wiemanniron.com
Tulsa, OK 74104

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www.woodwindowworkshop.com
Utica, NY 13501

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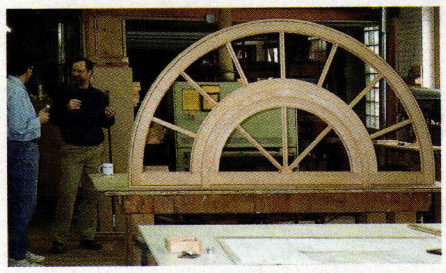
Write in No. 9640



Wood Window Workshop custom fabricates windows in any size, shape and wood species.

Woodworks Co.
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www.woodworkscompany.com
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Manufacturer of windows, doors, moldings & stair parts: rails, balusters/spindles, newel posts, finials & custom turnings; all wood species; interior & exterior; private, municipal & commercial.
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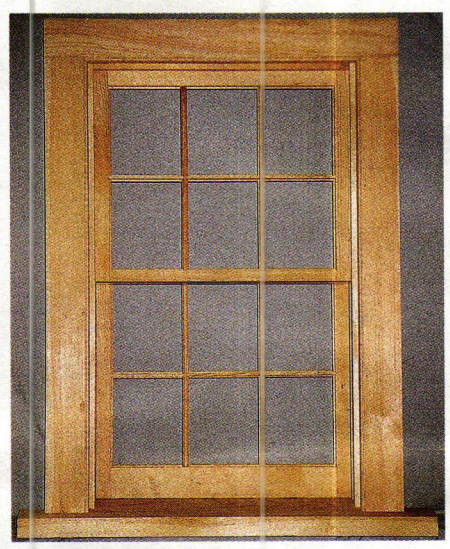

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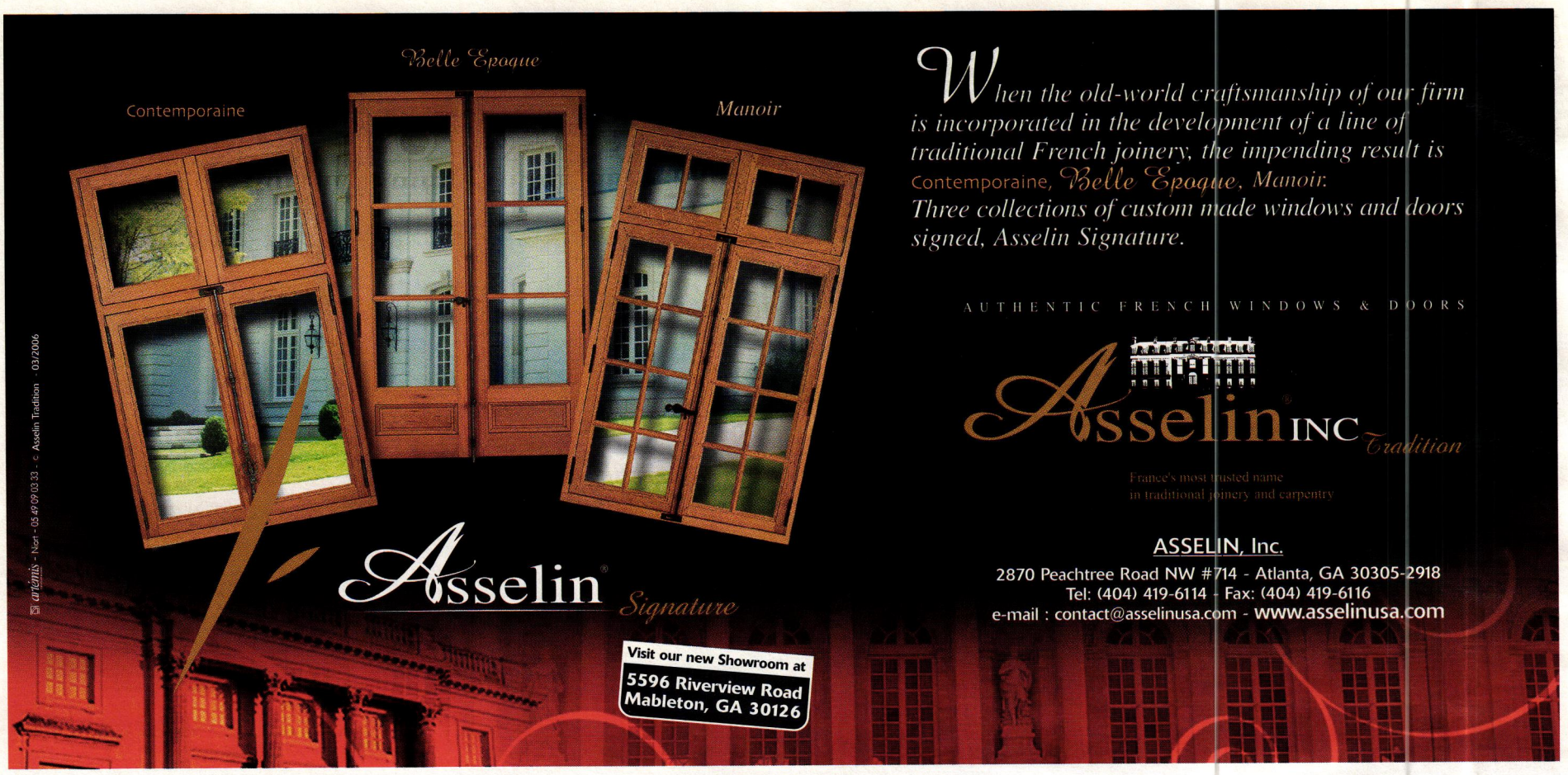

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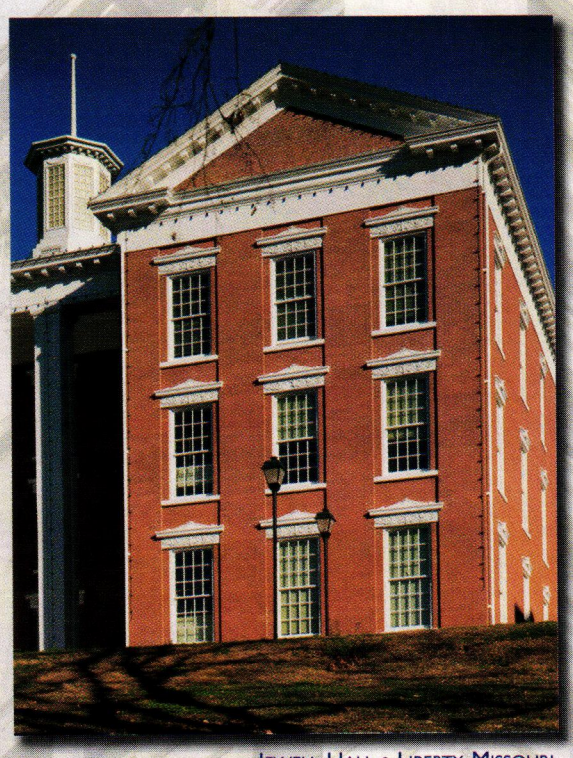

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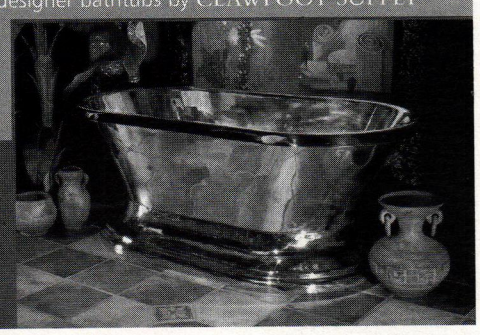

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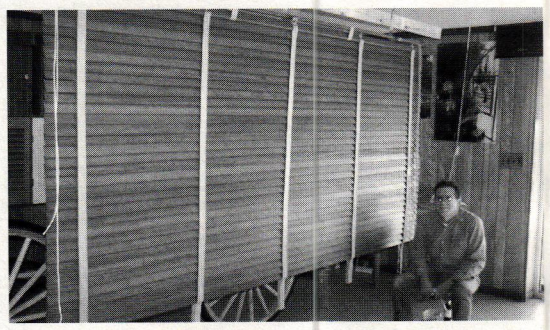

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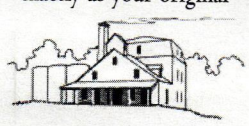

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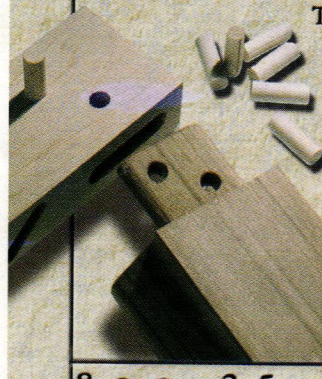

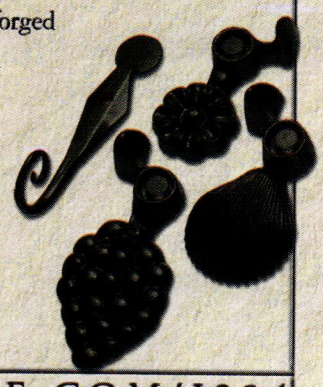

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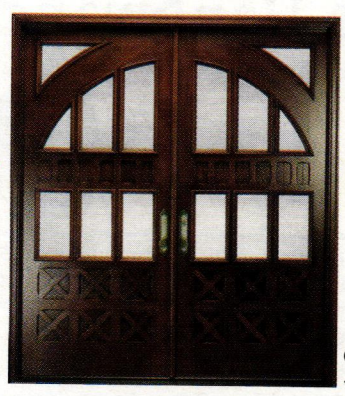

Vanderbilt
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Carriage Doors
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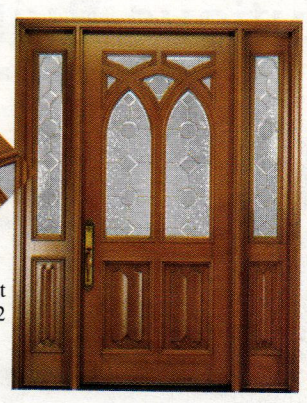

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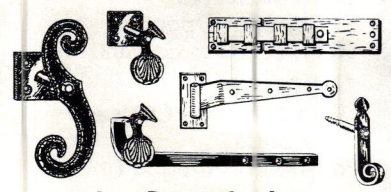

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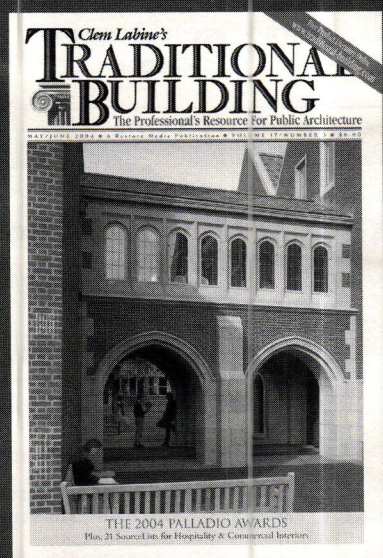

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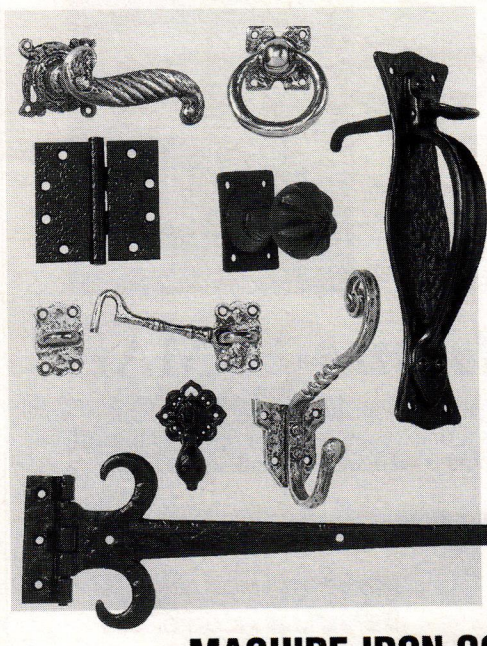

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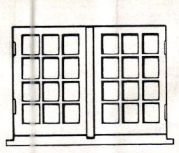

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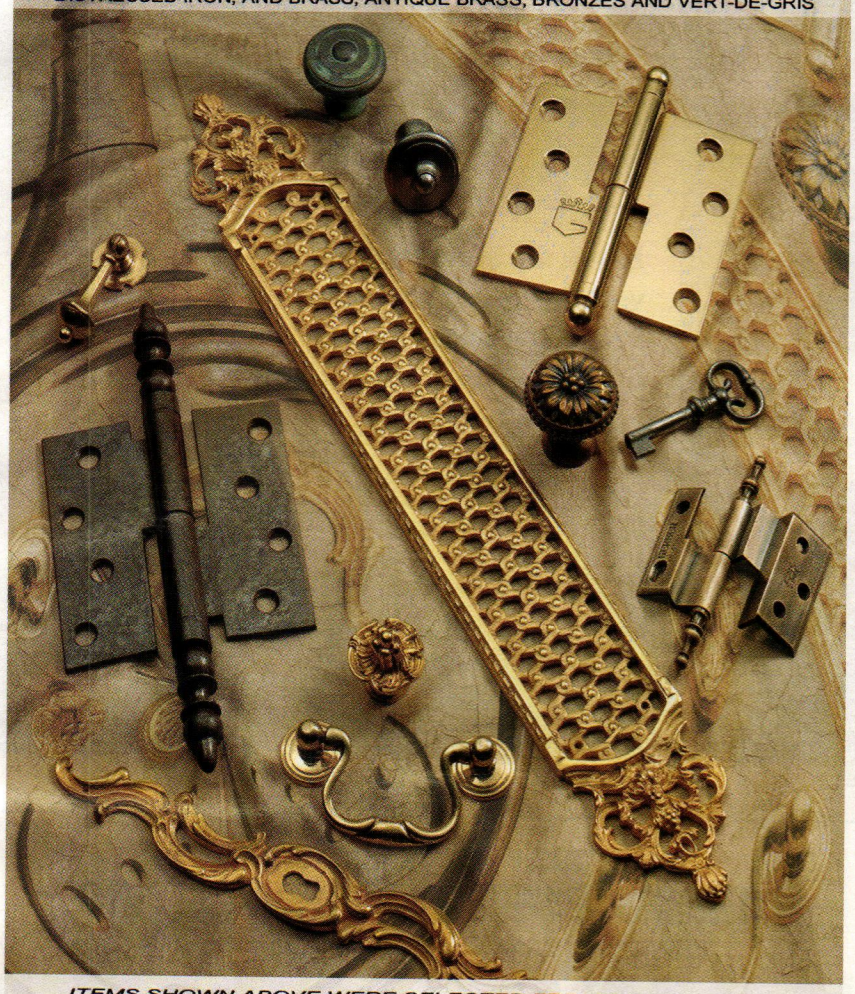

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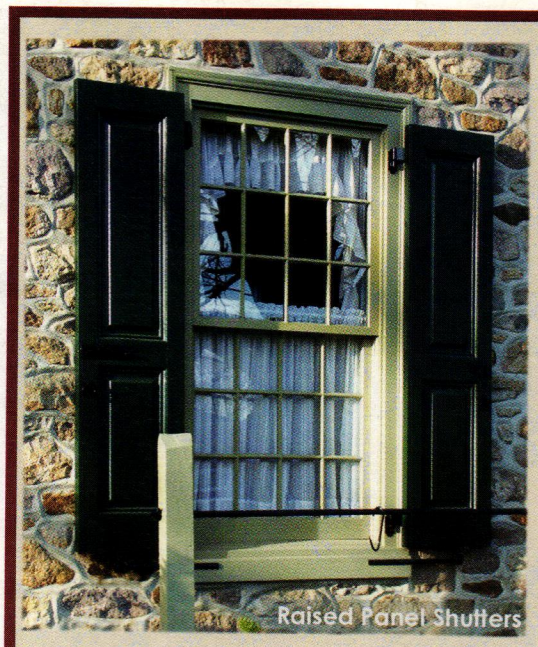

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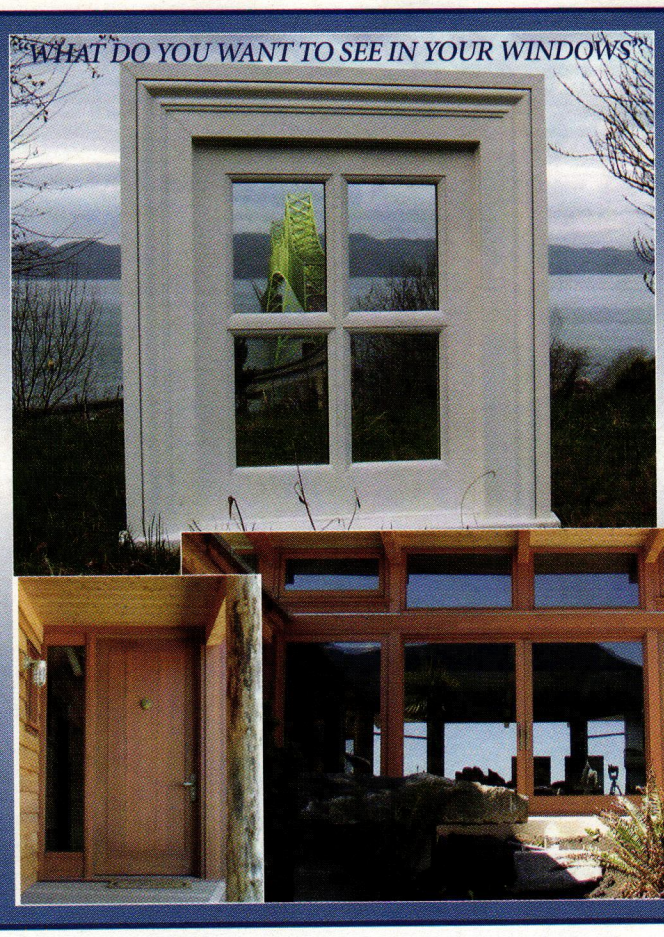

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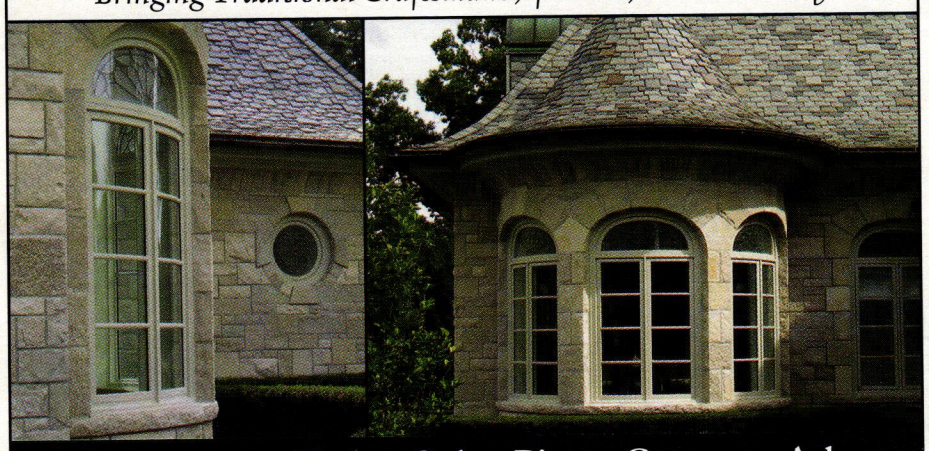

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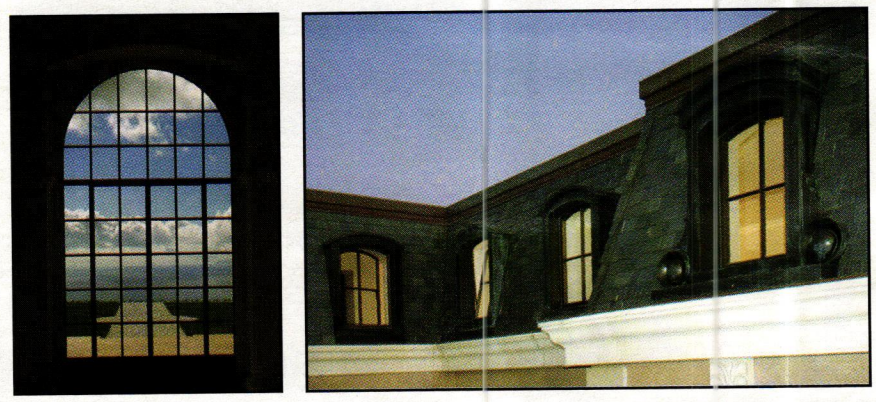

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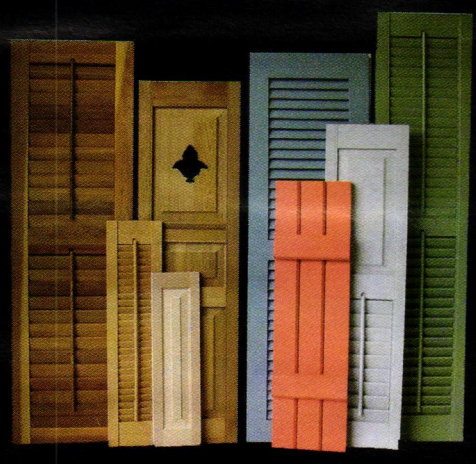

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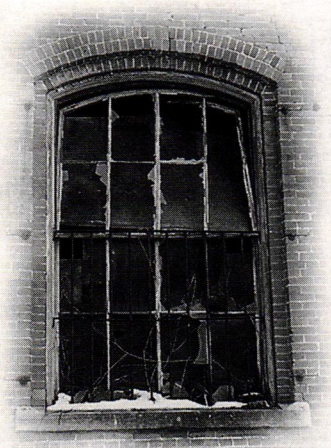

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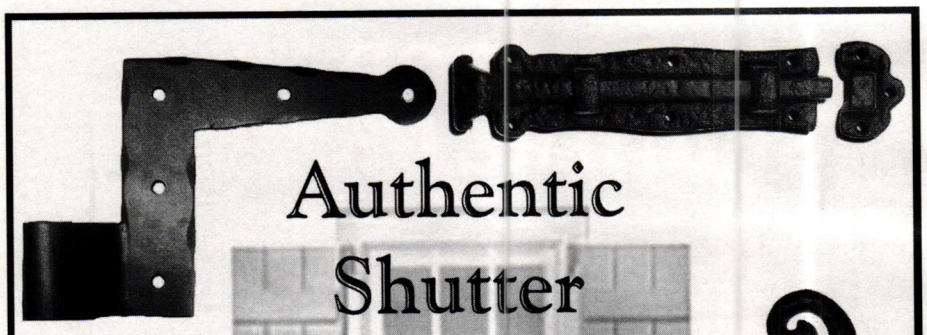

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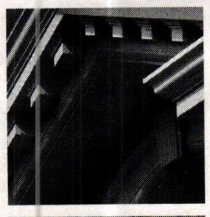

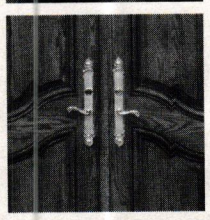

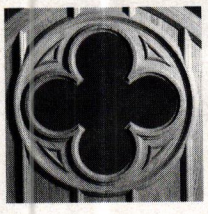

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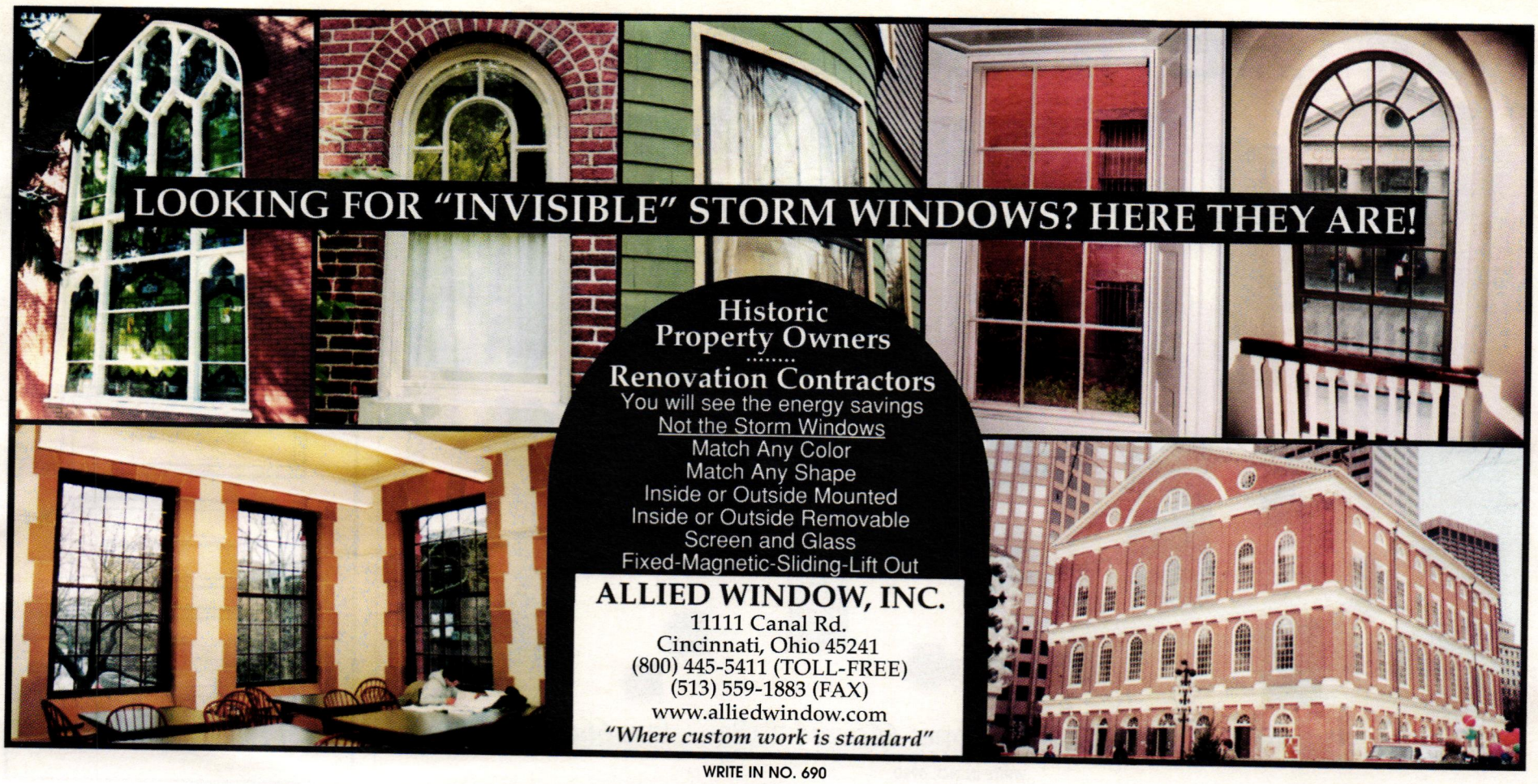

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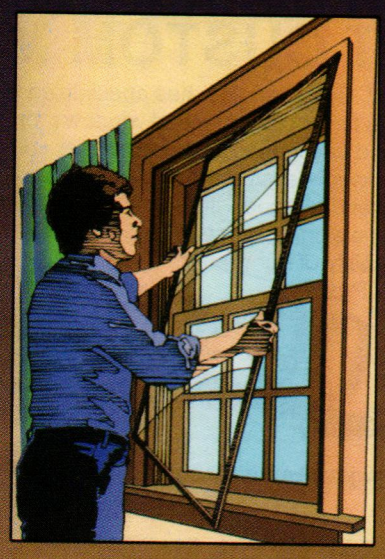

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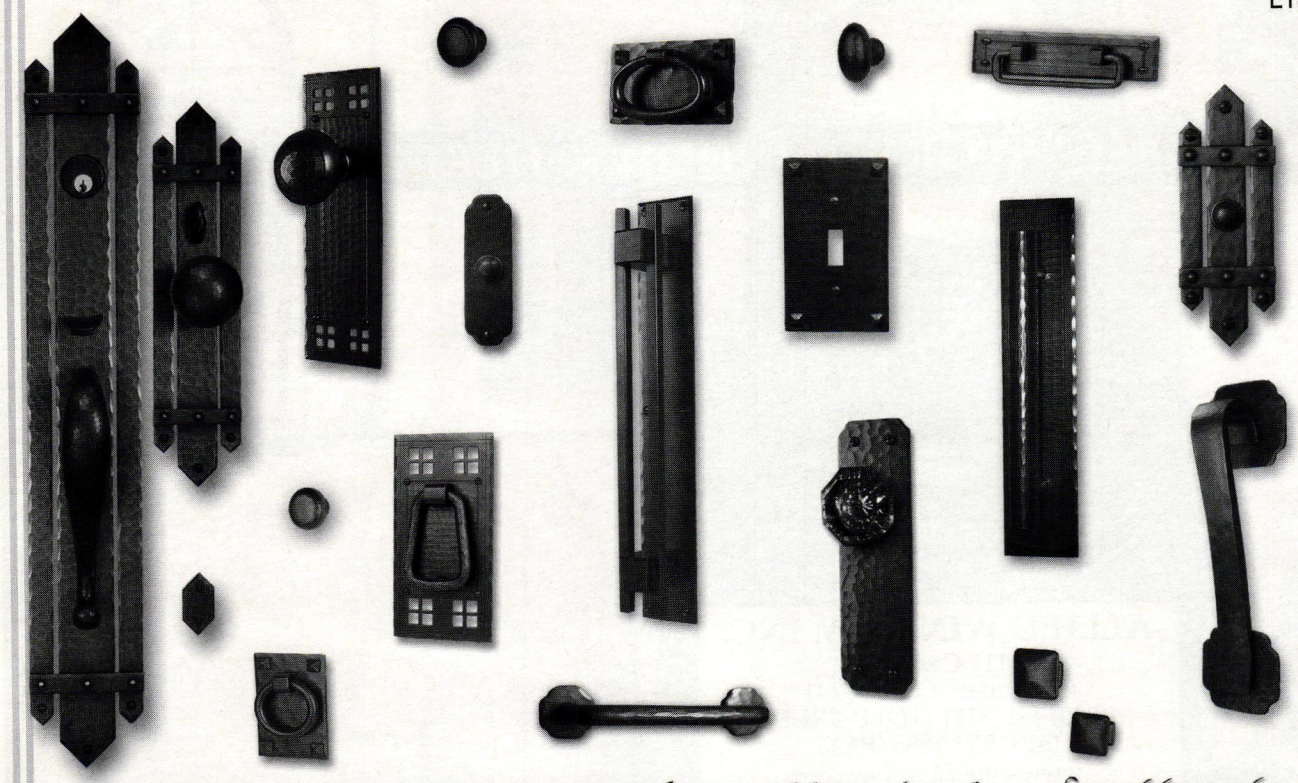

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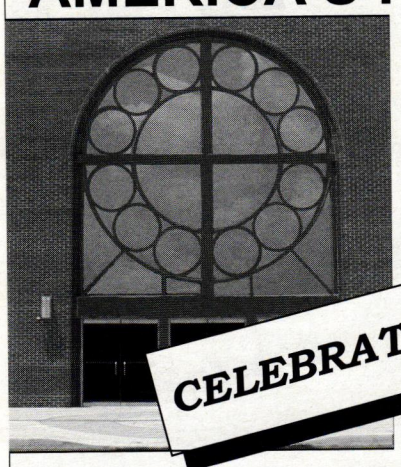

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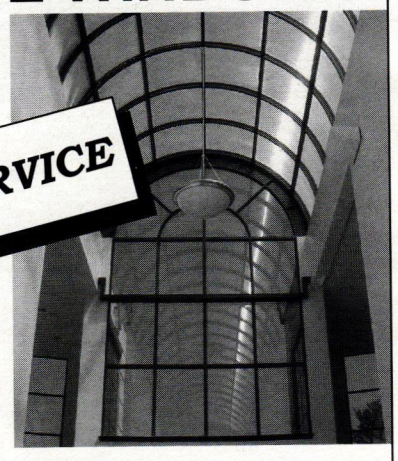

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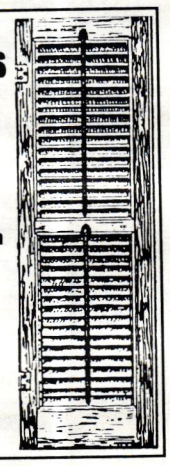

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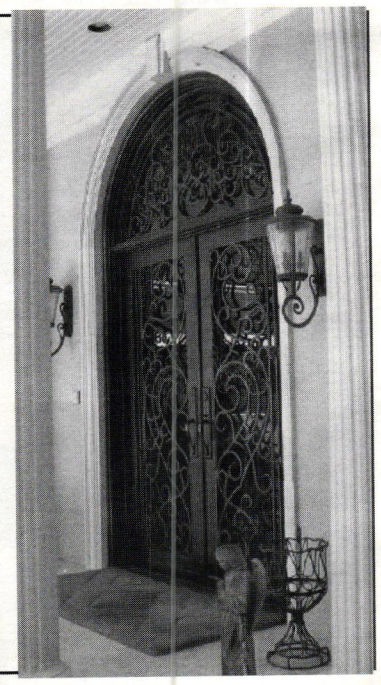


WRITE IN NO. 1392

www.traditional-building.com

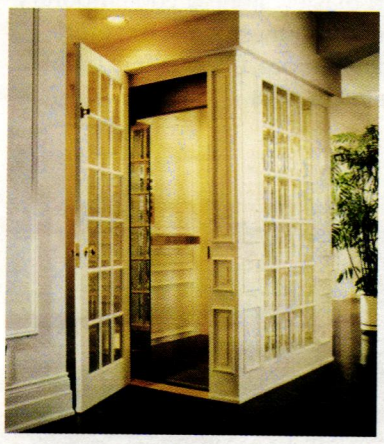
Elevators, Lifts & Dumbwaiters

To order product literature, go to www.traditional-building.com and click on "Free Product Literature" or fill out the card at page 34. To order literature from all of the companies listed here, enter No. 9808.

Auton Motorized Systems manufactures this TV lift, which conceals plasma and standard screens in a variety of ways, with a vertical or horizontal motion.

Auton Motorized Systems
661-257-9282; Fax: 661-295-5638
www.auton.com
Valencia, CA 91355
Manufacturer of elevators & dumbwaiters: lifts & concealment systems.
Write in No. 1546

Federal Elevator
888-785-4358; Fax: 905- 458-0680
www.federalelevator.com
Brampton, ON, Canada L6T 5L4
Manufacturer of elevators: custom finishes; since 1988.



The Panorama Elevator from Federal Elevator offers many options to suit individual specifications.

Inclinator Co. of America
717-234-8065; Fax: 717-234-0941
www.inclinator.com
Harrisburg, PA 17104
Manufacturer of elevators & lifts: cable, hydraulic & VVF drive systems: Spectralift fiberglass wheelchair lift, stairlifts & dumbwaiters; custom sizes & materials.

Miller Mfg., Inc.
800-232-2177; Fax: 707-584-0850
www.silentservant.com
Rohnert Park, CA 94928
Manufacturer of manual dumbwaiters: extruded-aluminum guide rails for car & counterweight, self-aligning ball bearings, fully automatic brake; five sizes in three opening styles with capacities from 50-250 lbs.

Elevators are available from Waupaca in a variety of sizes and styles.

Waupaca Elevator Co., Inc.
800-238-8739; No fax
www.waupacaelevator.com
Appleton. WI 54911
Manufacturer of residential elevators & light-duty commercial dumbwaiters: specialty gates & interlocks; custom craftsmanship; national distribution.

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Hides your plasma TV behind your favorite painting! One-touch, remote control operation. Fast, easy installation. Painting glides smoothly and quietly over AUTON'S famous rack & pinion drive.

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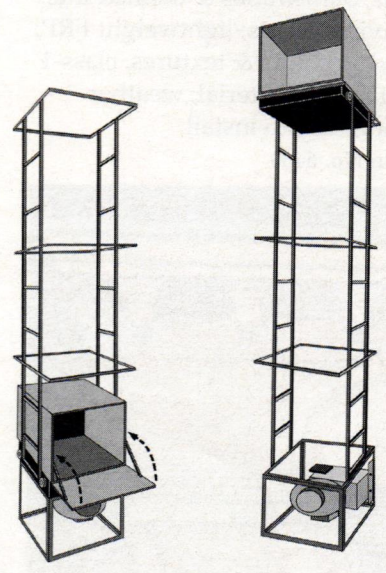
SMART Waiter



If you're tired of taking the stairs in your multi-level living space, it's time for AUTON'S SMARTWaiter! Saves steps and protects your back from heavy lifting. Ideal for moving a variety of items from floor to floor.

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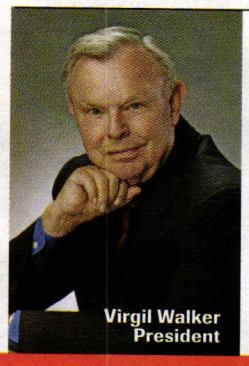

Virgil Walker
President

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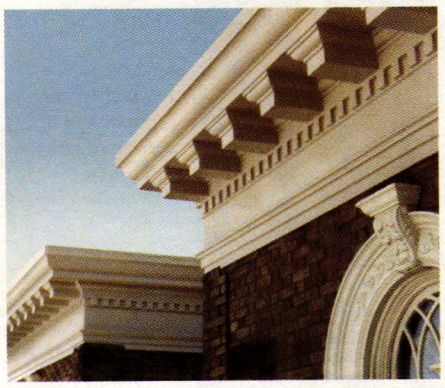
WRITE IN NO. 1546

When contacting companies you've seen in the issue, please tell them you saw their listing in *Traditional Building*.

Custom Exterior Elements, Ornament & Finishes

To order product literature, go to www.traditional-building.com and click on "Free Product Literature" or fill out the card at page 34. To order literature from all of the companies listed here, enter No. 9809.



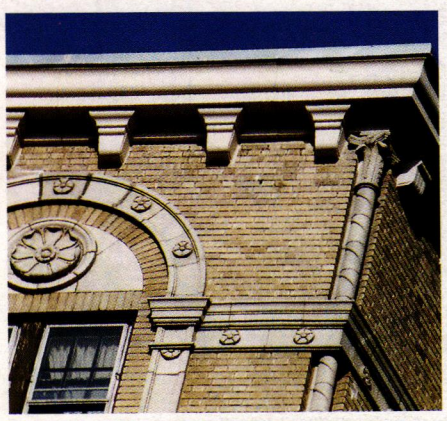
Melton Classics created this FRP fiberglass cornice for an historic restoration project in New England.

Architectural Columns & Balustrades by Melton Classics
800-963-3060; Fax: 770-962-6988
www.meltonclassics.com
Lawrenceville, GA 30042

Manufacturer of architectural elements: columns, moldings, balustrades, door & window features, cornices & trim; wood, fiberglass, polyurethane, marble/resin composite, GFRC, GRG, cast stone & synthetic stone.
Write in No. 4100

Architectural Fiberglass Corp.
800-439-2000; Fax: 631-842-4790
www.afcornice.com
Copiague, NY 11726

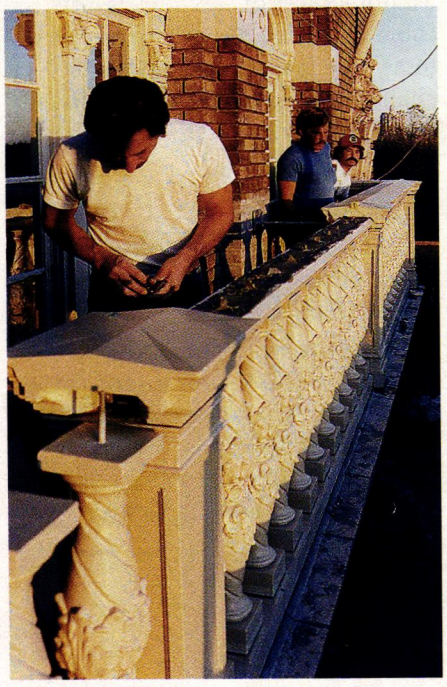
Fabricator of reproduction ornament: cornice molding, columns, capitals, balustrades & themed interior environments; lightweight FRP; molded-in colors & textures; class-1 fire-retardant material; weather resistant; easy to install.
Write in No. 6400



Architectural Fiberglass created a terra-cotta replication cornice in fiberglass for this building in New York City.

Architectural Reproductions, Inc.
888-440-8007; Fax: 503-281-6926
www.archrepro.com
Portland, OR 97227

Custom fabricator of cast-stone facade & cornice elements: uses both traditional cement-based casting methods & lightweight GFRC techniques.
Write in No. 6130



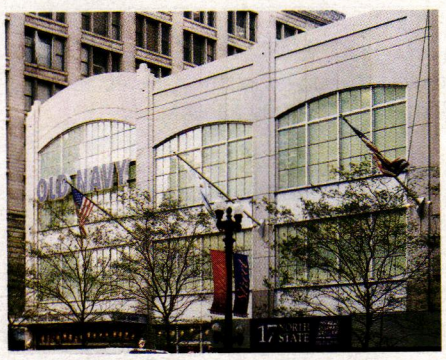
Architectural Reproductions replicated the terra-cotta balusters, piers and copings of the Franklin Building in Salem, OR, in pre-cast concrete.

B&H Art in Architecture, Ltd.
718-858-6613; Fax: 718-522-0342
341 Lafayette St.; P.O. Box 76
New York, NY 10012

Custom fabricator & restorer of architectural elements & hand-carved sculpture: columns, capitals & balustrades; any material & size; fountains, exterior cornices & garden ornament; consultation.
Write in No. 1009

Ball Consulting, Ltd.
724-266-1502; Fax: 724-266-1504
www.ball-consulting-ltd.com
Ambridge, PA 15003

Supplier of moldmaking materials & casting compounds: alginate, latex rubber, polyurethane & silicone for moldmaking; GFRC, gypsum, polymer-modified gypsum, plaster & polyurethane casting compounds; terra-cotta substitutes.
Write in No. 7260



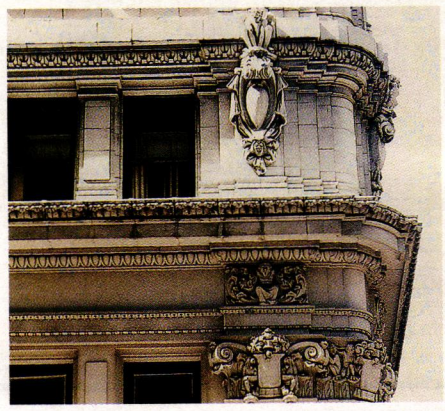
The glass fiber reinforced concrete (GFRC) used to re-clad this building on State Street, in Chicago, IL, was acquired from Ball Consulting.

Balmer Architectural Mouldings
416-491-6425; Fax: 416-491-7023
www.balmer.com
Toronto, ON, Canada M2J 1S5

Supplier & installer of moldings, cornices, domes, mantels, columns & capitals: cast in gypsum & polyurethane-based materials; more than 12,000 patterns; custom pattern making.
Write in No. 3159

BayFoam, Inc.
800-743-3626; Fax: 510-786-0297
www.bayfoam.com
Hayward, CA 94545

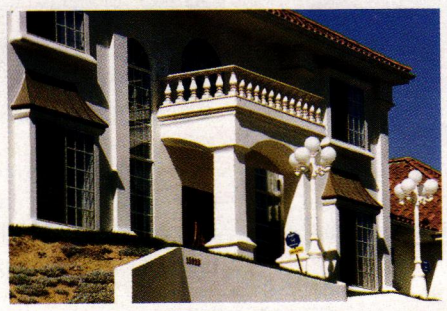
Producer of architectural elements: made of BayStone, a blend of Old World plaster, stone & contemporary technology; limestone & travertine finishes & more; interior & exterior.
Write in No. 1818



Boston Valley Terra Cotta restored the façade of this office building.

Boston Valley Terra Cotta
716-649-7490; Fax: 716-649-7688
www.bostonvalley.com
Orchard Park, NY 14127

Custom fabricator of architectural terra-cotta products: roof tile & Terraclad (rain-screen system); columns/capitals, cornices, balustrades, garden sculpture & chimneys; standard & custom shapes & colors; replacements & new designs.
Write in No. 160



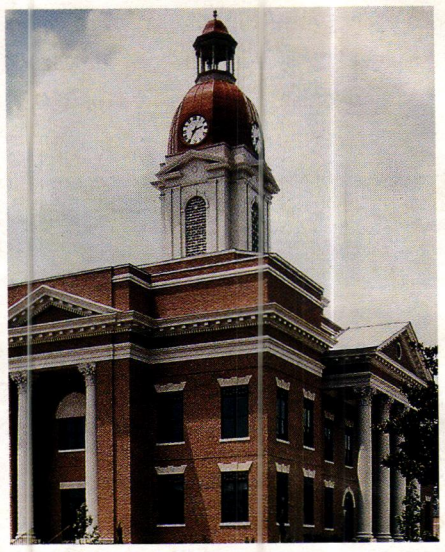
C & J custom fabricated the sheet-metal ornament for this building.

C&J Metal Products
800-500-8660; Fax: 562-634-8823
www.cjmetals.com
Long Beach, CA 90805

Manufacturer & supplier of architectural sheet-metal elements: roof dormer vents, finials, spires, dormers, canopies, leader heads & chimney tops; restoration & duplication.
Write in No. 596

Campbellsville Industries, Inc.
800-467-8135; Fax: 270-465-6839
www.cvilleindustries.com
Campbellsville, KY 42719

Manufacturer & installer of architectural metalwork: steeples, cupolas, clock towers, finials, weathervanes, dormers, cornices, crosses, columns, balustrades, picket & paneled railings; aluminum, copper, zinc & lead-coated copper.
Write in No. 2730



This 56-ft. 4-in. aluminum cupola, with a 6-ft.-dia. clock and aluminum cornice, was created for the Worth County Courthouse in Sylvester, GA, by Campbellsville Industries.

Canning Studios
203-272-9868; Fax: 203-272-9879
www.canning-studios.com
Cheshire, CT 06410

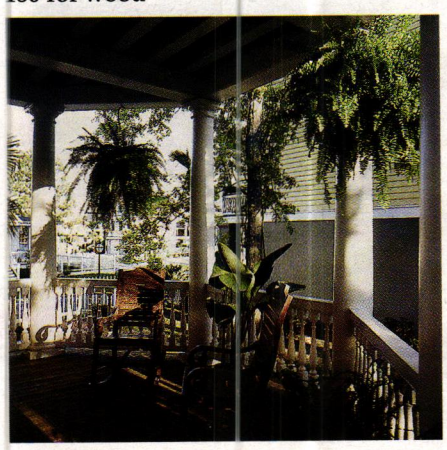
Restorer & designer of decorative finishes, ornamental plaster & wood: historic paint analysis; plaster consolidation & stabilization; decorative paint, murals, interior & exterior gilding, wood graining; metal & stone cleaning.
Write in No. 5100

Cantera Especial
800-564-8608; Fax: 818-907-0343
www.cantera-especial.com
Pacific Palisades, CA 90272

Manufacturer of hand-carved natural-stone products made from limestone, cantera, adoquin, travertine, marble & sandstone quarried in Europe & Mexico: fireplaces, fountains, columns, balustrades, molding, sculpture & custom work.
Write in No. 31

Chadsworth's 1.800.Columns
800-486-2118; Fax: 910-763-3191
www.columns.com
Wilmington, NC 28401

Manufacturer of architectural columns, pillars, pilasters, posts, balustrades & pergolas: interior & exterior; variety of sizes, styles & lumber species; Authentic Replication, PolyStone, Colossal & original design.
Write in No. 1580 for PolyStone; 180 for wood



The Chadsworth's PolyStone columns on this traditional southern porch are mirrored in the interior of the house.

TIMELESS ARCHITECTURAL REPRODUCTIONS, INC.

Designers & Manufacturers of Classic Architectural Products

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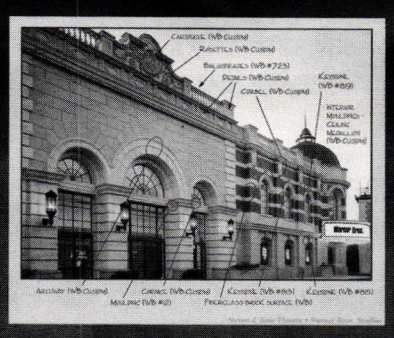

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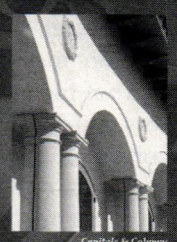
SJR Theatre, Burbank

Ornamentation & Friezes
Calabasas Commons Shopping Mall


Capitals & Columns
Monarch Bay Resort, Dana Point

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Warner Bros. Studio Facililties Construction Services
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phone 818.954.7820 • *email* wbsfconstructionservices@warnerbros.com

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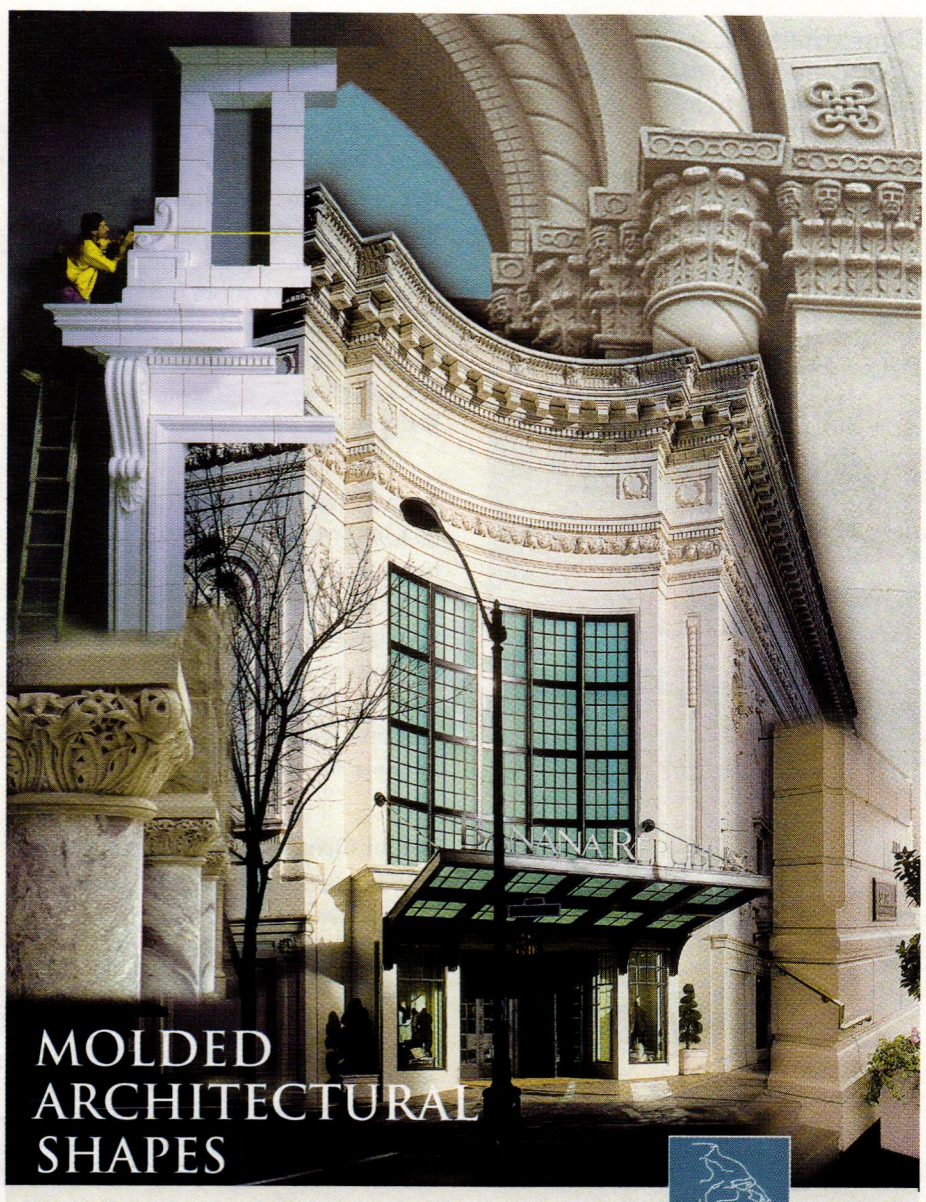

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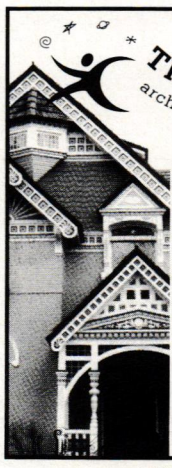
The Color People

architectural color consultants



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Denver, CO 80205
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nicecolors@colorpeople.com

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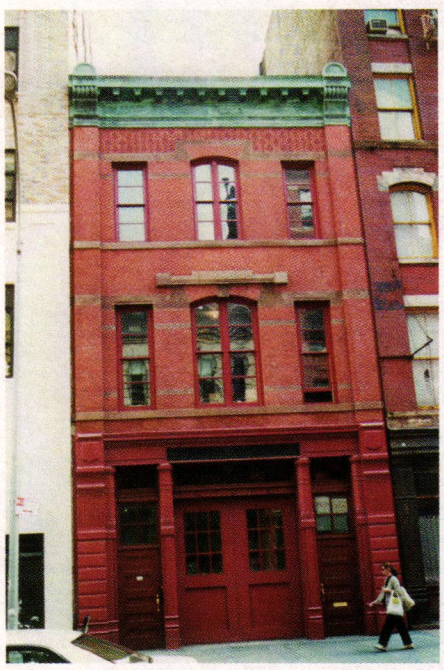
www.colorpeople.com
Denver, CO 80205
Designer of exterior color schemes: consultation for residences, businesses, Main Streets & townscapes through photos via mail & on-site.
Write in No. 5470

The color scheme of the Easy Street Casino in historic Central City, CO, was coordinated by The Color People, and met the approval of the National Register of Historic Places.

CopperCraft, Inc.
800-486-2723; Fax: 817-490-9661
www.coppercraft.com
Keller, TX 76248
Manufacturer of sheet-metal products: spires, finials, louvers, dormers, weathervanes, cupolas, conductor heads, cornices, cladding, chimney caps, canopies, bronze doors & more.
Write in No. 1490



CopperCraft manufactures a complete line of architectural sheet-metal products, including roof panels, cornices and dormers.

Decorators Supply Corp.
773-847-6300; Fax: 773-847-6357
www.decoratorssupply.com
Chicago, IL 60609
Supplier of period architectural elements: ceiling medallions, mantels, cornices, columns & capitals; plaster of Paris, compo & wood; 14,000 patterns available.
Write in No. 210

DMS Studios
718-937-5648; Fax: 718-937-2609
www.dms-studios.com
Long Island City, NY 11101
Custom fabricator of hand-carved stone elements: fountains, mantels, statuary, balustrades, capitals & landscape ornament; historically accurate.
Write in No. 9100 for carving; 262 for sculpture

Durable Slate Co., The
800-666-7445; Fax: 614-299-7100
www.durableslate.com
Columbus, OH 43201
Contractor providing historic restoration: slate, tile & metal roofing; exterior metal ornament; restoration of masonry, monuments, doors, windows, interiors, steeples, spires & cupolas; Midwest, East & South regions; since 1986.
Write in No. 3720

EverGreene Painting Studios, Inc.
212-244-2800; Fax: 212-244-6204
www.evergreene.com
New York, NY 10001
Decorative arts studio: murals, decorative painting, gilding, plaster, wood, metal, stone & mosaics; new design, conservation & restoration; ecclesiastical, institutional, public & commercial projects; offices in NYC & Chicago.
Write in No. 2460

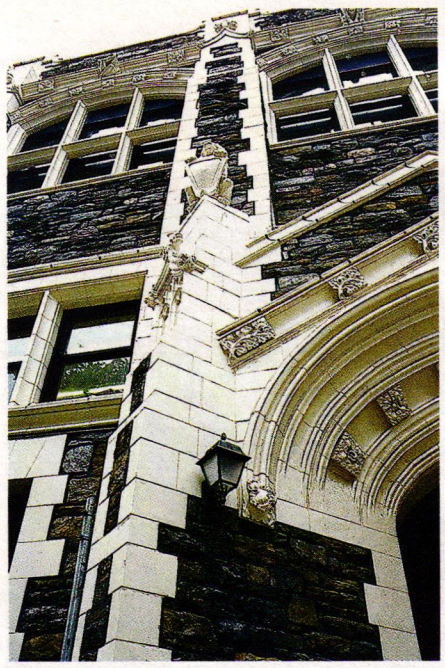
Fagan Design & Fabrication, Inc.
203-937-1874; Fax: 203-937-7321
www.fagancolumns.net
West Haven, CT 06516
Manufacturer of columns & turnings: stain grades in any wood species; Classical orders; stock & custom; worldwide supplier.
Write in No. 8210

Felber Ornamental Plastering Corp.
800-392-6896; Fax: 610-275-6636
www.felber.net
Norristown, PA 19404
Supplier of molded ornament: capitals, cornices, friezes, niches, keystones, rosettes, coffers, domes & medallions; custom mantels; plaster, gypsum & GRG; sculptors, modelmakers & casters on staff; stock & custom.
Write in No. 2890

Felber Ornamental Plastering supplied the mold for this bracket.

Fiberglass Specialties, Inc.
800-527-1459; Fax: 903-657-2318
www.fsiweb.com
Henderson, TX 75653
Manufacturer of FRP steeples, domes & cupolas: dozens of stock sizes & components; fiberglass & custom baptismal fonts; columns & balustrades; design department assists with custom requirements.
Write in No. 7310

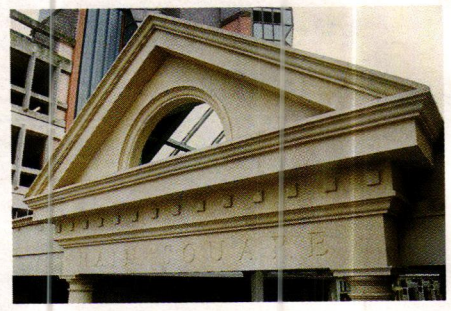
Fischer & Jirouch Co.
216-361-3840; Fax: 216-361-0650
www.fischerandjirouch.com
Cleveland, OH 44103
Manufacturer of handcrafted plaster moldings: columns, capitals, ceiling medallions & fireplace mantels; interior & exterior ornament.
Write in No. 1960



Gladding, McBean supplied the replacement terra-cotta elements on this building's façade.

Gladding, McBean
800-776-1133; Fax: 916-645-1723
www.gladdingmcbean.com
Lincoln, CA 95648
Manufacturer of sculptural ornamentation, machine-extruded terra cotta, roof tile, chimney tops, pavers, garden pottery & vitrified sewer pipes: terra-cotta columns, balustrades, copings, cornices & more; custom glaze development.
Write in No. 6010

Goodwin Associates
585-248-3320; Fax: 585-387-0153
www.goodwinassociates.com
Rochester, NY 14618
Supplier of architectural products: cornice moldings, columns, capitals, balustrades, door & window surrounds, ceiling medallions, niches, domes, brackets, corbels, mantels & more; polyurethane, FRP & hardwood millwork.
Write in No. 806



This custom cast-stone pedimented entrance to a shopping mall was fabricated by Haddonstone.

Haddonstone (USA), Ltd.
856-931-7011; Fax: 856-931-0040
www.haddonstone.com
Bellmawr, NJ 08031
Manufacturer of Classical stonework: columns, balustrades, benches, planters, urns, pavers, fountains, gazebos, mantels, statuary & more; cast, reconstructed limestone resembling Portland stone; more than 500 designs.
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San Marcos, CA 92079
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Write in No. 1038

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Write in No. 2470

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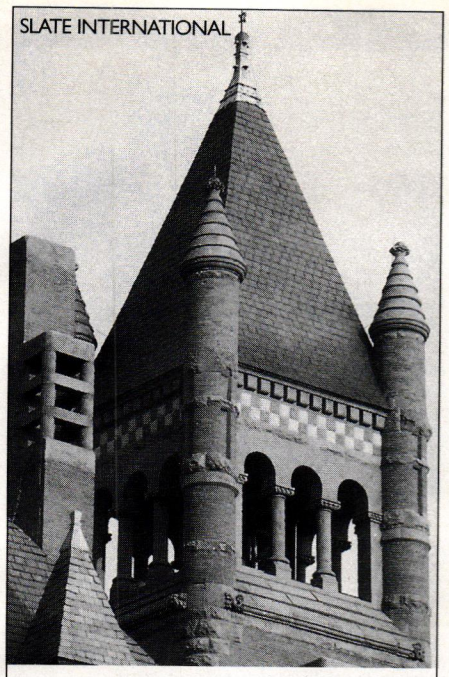
www.historicalarts.com
West Jordan, UT 84088
Designer & custom fabricator of ornamental metalwork: doors, windows, hardware, stairs, balustrades, registers, fences, lighting, gutters, columns, weathervanes, planters & more; iron, bronze, aluminum & steel; restoration services.
Write in No. 1210

JMS Wood Products
818-348-7230; Fax: 818-348-7231
www.jmswoodproducts.com
Canoga Park, CA 91304
Supplier of custom millwork: roped, fluted & twisted stair parts; columns, capitals & mouldings; all wood species.
Write in No. 6320

SLATE INTERNATIONAL

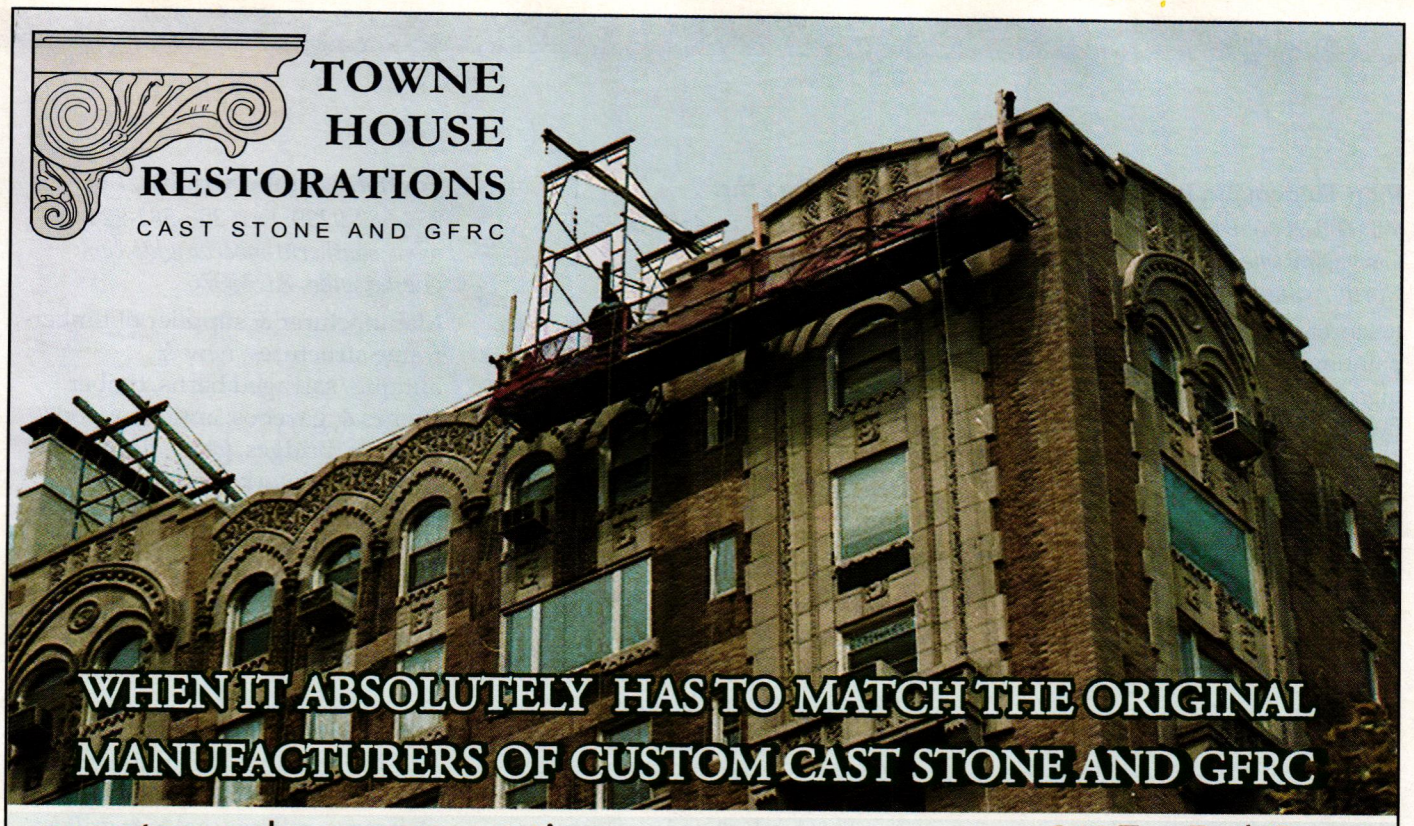


www.
traditional-building
.com

The internet marketplace for historical products & services

TOWNE HOUSE RESTORATIONS

CAST STONE AND GFRC



www.townehouserestorations.com
phone 718 . 497 . 9200 fax 718 . 497 . 3556

341 Ten Eyck Street
Brooklyn, NY 11206

WRITE IN NO. 545

Call for Entries

2007 PALLADIO AWARDS

Honoring Excellence in Traditional Commercial & Civic Design

Co-produced by *Traditional Building* & *Period Homes* and the Traditional Building Exhibition and Conference

The Palladio Awards are named in honor of Andrea Palladio, the Renaissance architect who created modern architecture for his time, while using models from the past for inspiration and guidance.

Palladio Awards for Commercial & Civic Architecture will be awarded in five categories:

Restoration & Renovation

Adaptive Reuse &/or Sympathetic Addition

New Design & Construction – less than 30,000 sq.ft.

New Design & Construction– more than 30,000 sq.ft.

Public Spaces: Parks, Plazas, Gardens, Streetscapes

Corresponding awards will also be made for residential projects.

Judging will be by a panel of distinguished architectural designers selected by the editors of *Traditional Building* & *Period Homes.*

The deadline for entries is November 15, 2006.

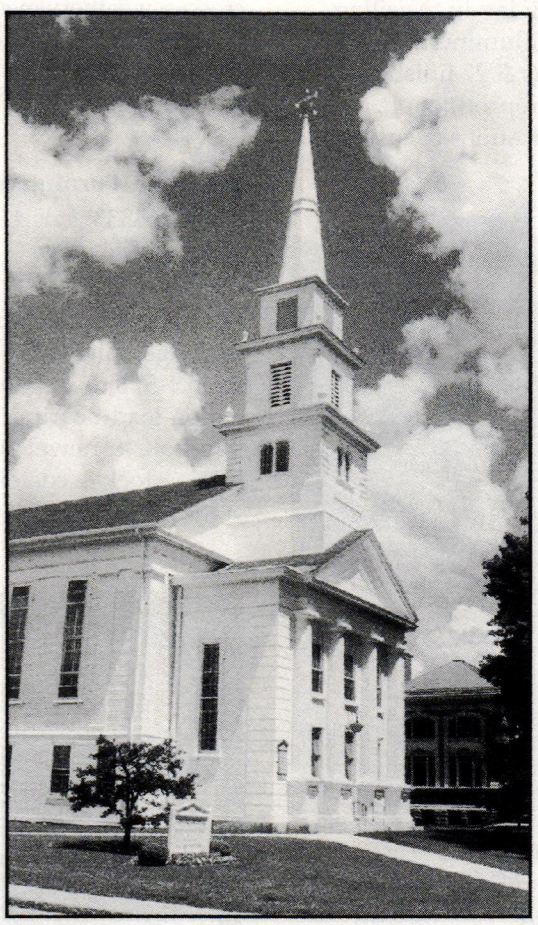
For details on the Awards program, judging criteria and submission requirements, go to

www.palladioawards.com

WRITE IN NO. 7777

PROJECT PROFILE

CONGREGATIONAL CHURCH
WESTBOROUGH, MASSACHUSETTS



Built in 1834, the historic Congregational Church in Westborough was thoroughly renovated in the early 1990's. Fiberglass Specialties was chosen to fabricate the spire, top cupola, and eight urns. The shingle effect on the spire and the simulated wood siding of the cupola are in fact molded into the fiberglass laminate. And since the white color is an integral part of the laminate, eliminating the need for scraping and repainting, the church will save on maintenance costs in the future.

FIBERGLASS SPECIALTIES INCORPORATED

"Manufacturers of Quality Architectural Fiberglass Products"

POST OFFICE BOX 1340 • HENDERSON, TEXAS 75653

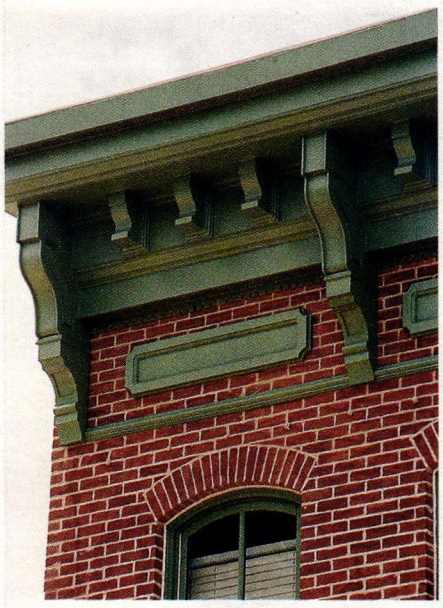
1-800-527-1459 FAX: 903-657-2318

WRITE IN NO. 7310

John Tiedemann Inc.
877-600-2666; Fax: 201-991-3419
www.johntiedemann.com
North Arlington, NJ 07031
Restorer of interior elements: interior painting & design, liturgical renderings, decorative granite flooring, faux finishes, murals & frescoes, gilding, art restoration, paint & plaster analysis, historic analysis & testing.
Write in No. 1765

Kenneth Lynch & Sons, Inc.
203-762-8363; Fax: 203-762-2999
www.klynchandsons.com
Wilton, CT 06897
Manufacturer of ornamental metalwork & cast-stone products: planters, urns, benches, fountains, statuary, topiary, sundials & weathervanes; cast stone, cast & wrought iron, lead & bronze; stock & custom designs.
Call for more information.

M-Boss, Inc.
866-88M-BOSS; Fax: 216-623-0908
www.mbossinc.com
Cleveland, OH 44125
Manufacturer of tin ceilings, cornices & moldings: embossed-metal panels; nail-up & lay-in to ceiling grids; copper & aluminum; more than 140 patterns & 27 finishes; antique/classic reproduction, contemporary, replications & custom.
Write in No. 1014



Manor Style's Durastyl was used to create the PVC brackets, panels and trim for this building.

Manor Style, Ltd.
800-325-2188; Fax: 443-200-0010
6741 Whitestone Rd.
Baltimore, MD 21207
Custom fabricator & nationwide supplier of architectural elements: Durastyl & AZEK PVC square columns, newels, panels, arches, trellis & trim; load-bearing fiberglass columns & capitals; preformed balustrading; free literature.
Write in No. 703

Mohamad Woodturning Corp.
718-417-0025; Fax: 718-417-0021
www.mohamadwoodturning.com
Brooklyn, NY 11206
Supplier of custom wood turnings: roped, twisted, fluted & spiral stairs & stair parts; balusters & columns; Classical styles; exterior & interior.
Write in No. 50

Munns Mfg., Inc.
435-257-5673; Fax: 435-257-3842
www.munnsmfg.com
Garland, UT 84312
Manufacturer of aluminum steeples, pinnacles, spires, cupolas & towers: variety of styles & designs; weathervanes optional; custom copper & aluminum dormers.
Write in No. 1356

NIKO Contracting Co., Inc.
412-687-1517; Fax: 412-687-7969
www.nikocontracting.com
Pittsburgh, PA 15213
Custom fabricator & contractor of sheet metal & roofing: slate, tile & other roofing; storefronts, cornices, cupolas, domes, steeples, snowguards & leader heads; copper, lead-coated copper, zinc & stainless steel; metal ceilings.
Write in No. 8300

Ornametals, LLC
256-350-7410; Fax: 256-309-5921
www.ornametals.com
Decatur, AL 35601
Fabricator & distributor of metal roofing & roof ornament: finials, cupolas, crosses, weathervanes, gutters, leader boxes & more; exterior balustrades & cornices; copper & zinc.
Write in No. 5025

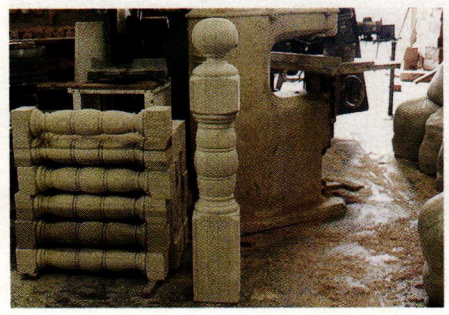
Pagliacco Turning & Milling
415-488-4333; Fax: 415-488-9372
www.pagliacco.com
Woodacre, CA 94973
Manufacturer of columns & other turnings: solid & hollow turnings from 1-5/8 to 24 in. x 20 ft.; load- & non-load-bearing; balusters, handrails & newel posts; Classical styles; stock & custom turnings.
Write in No. 7070

This decorative pediment was fabricated by Seal Reinforced Fiberglass.

Seal Reinforced Fiberglass, Inc.
631-842-2230; Fax: 631-842-2276
www.sealfiberglass.com
Copiague, NY 11726
Supplier of FRP building components: cornices, cupolas, columns, balustrades, brackets, planters, urns, water features & garden ornament; full-service mold & tool fabricator; on-site molds.
Write in No. 4620 for cornices; 1353 for cupolas

Southern Timberwrights, LLC
256-582-9299; Fax: 256-582-9247
www.southerntimberwrights.com
Guntersville, AL 35976
Manufacturer & supplier of timber-frame structures: new & antique/salvaged barns, timber frames & gazebos; antique wood flooring, bridges, gates, decking & custom millwork & moldings; restoration work.
Write in No. 1290

Steptoe & Wife Antiques Ltd.
800-461-0060; Fax: 416-780-1814
www.steptoewife.com
Toronto, ON, Canada, M6B 1V9
Fabricator of architectural metalwork: cast-iron spiral & straight staircases, railings, gates & grilles; copper, iron, aluminum, steel, brass & bronze fabrication for renovation & restoration projects.
Write in No. 470

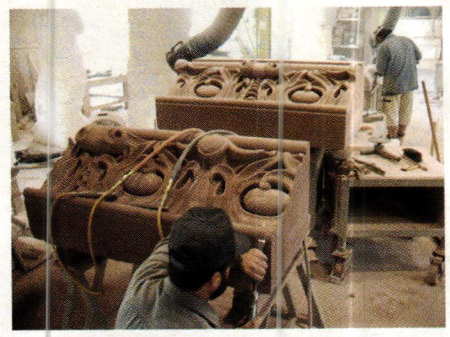


The Wood Factory fabricated these large-scale exterior newel posts and balusters in poplar.

The Wood Factory
936-825-7233; Fax: 936-825-1791
111 Railroad St.
Navasota, TX 77868
Custom fabricator of millwork: monumental stairs, brackets, finials, spindles, gazebo parts, custom turnings & screen doors; all wood species; interior & exterior; matches custom parts & workings from renderings; reproductions.
Write in No. 7120

Timeless Architectural Reproductions, Inc.
800-665-4341; Fax: 770-205-1447
www.timelessarchitectural.com
Cumming, GA 30041
Manufacturer of architectural ornament: exterior fiberglass columns, decorative capitals, pilasters, balustrades & more; interior columns & capitals; polyester resin, fiberglass & cultured marble composite; custom casting.
Write in No. 1414

Towne House Restorations
718-497-9200; Fax: 718-497-3556
www.thrcaststone.com
Brooklyn, NY 11206
Manufacturer of molded ornament: columns, capitals, cornices, balustrades, sculpture & more; cast stone & GFRC; pattern restoration, color matching, field molds, field surveys, shop drawings & engineering; terra-cotta restoration.
Write in No. 545



Traditional Cut Stone used British red sandstone for a restoration project at Toronto's Old City Hall.

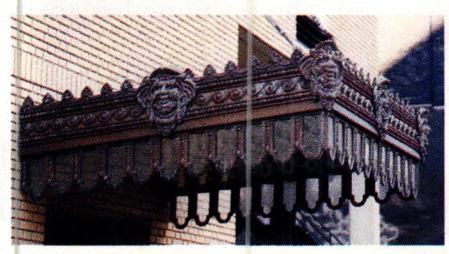
Traditional Cut Stone, Ltd.
416-652-8434; Fax: 905-673-8434
www.traditionalcutstone.com
Mississauga, ON, Canada L5S 151
European master carver: architectural ornamentation & monumental statuary; restoration; historical reproduction in limestone, sandstone & marble; stone design with clay & plaster models; hand-drawn renderings.
Write in No. 2902

Turnings Unlimited
937-845-0211; Fax: 937-845-0230
www.turningsunlimited.com
New Carlisle, OH 45344
Custom fabricator of woodwork: stair parts, custom turnings, balusters & newel posts; many wood species.
Write in No. 1122

Vintage Woodworks
903-356-2158; Fax: 903-356-3023
www.vintagewoodworks.com
Quinlan, TX 75474
Manufacturer & supplier of Victorian millwork: wood porch parts, turned posts, turned & sawn balusters, railings, brackets, corbels, custom-length spandrels, columns, screen/storm doors, mantels & more; 192-p. catalog.
Write in No. 1061

Vulcan Supply Corp.
802-893-0512; Fax: 802-893-0534
www.vulcansupply.com
Westford, VT 05494
Supplier of ornamental sheet metal: finials, weathervanes, cornices, cupolas, roof vents, leader boxes, fountains, garden ornament & more; historical replications; custom & stock.
Write in No. 7212

W.F. Norman Corp.
800-641-4038; Fax: 417-667-2708
www.wfnorman.com
Nevada, MO 64772
Manufacturer of sheet-metal ornament: hundreds of stock designs; cornices, moldings, brackets, pressed-metal ceilings, roofing, siding, finials & more; zinc, copper & lead-coated copper; duplication from samples or drawings.
Write in No. 520



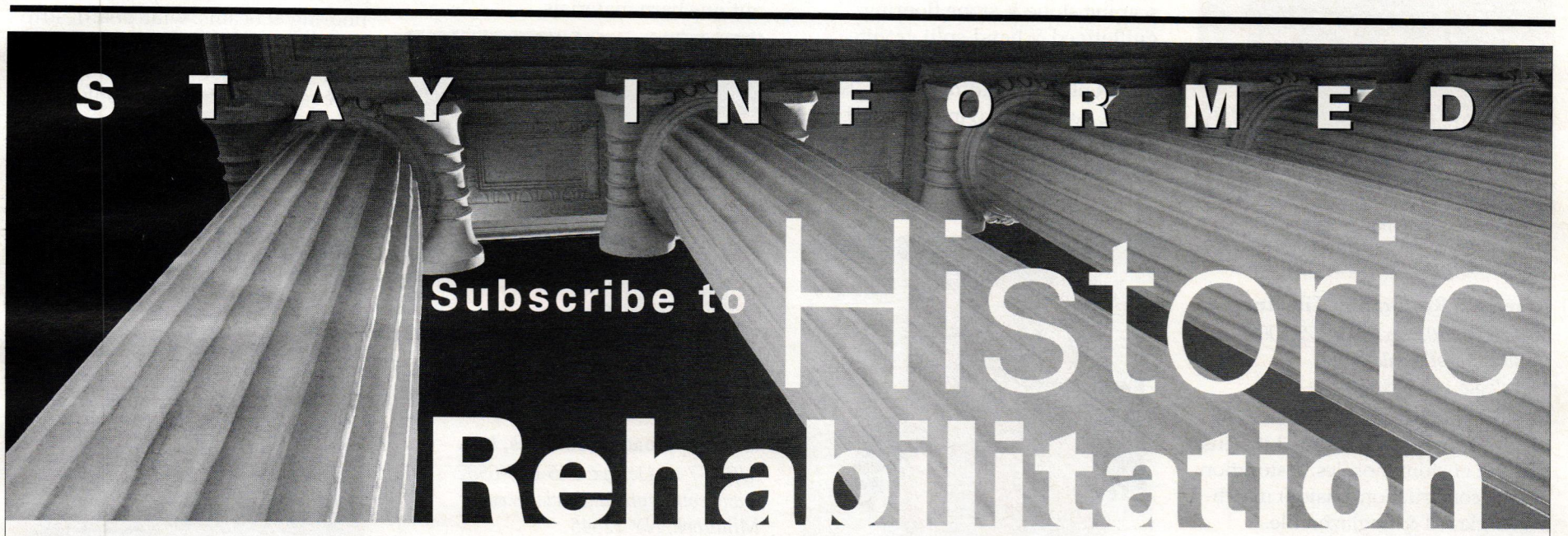
This decorated sheet-metal canopy was fabricated by W.F. Norman.

Wagner Foundry, Inc.
800-276-1084; Fax: 773-276-9656
www.wagnerfoundry.com
Chicago, IL 60622
Custom fabricator of architectural, art & industrial castings: hardware, sculpture, grilles, signage, plaques, storefront elements & cast-metal ornament; aluminum, bronze & brass; sand & lost-wax casting; ecclesiastical work.
Write in No. 1062

The custom cartouche, rosettes and foliate swag on this cornice ornament were fabricated by Warner Bros. Studio.

Warner Bros. Studio Facilities
818-954-3000; Fax: 818-954-7829
www.wbsf.com
Burburbank, CA 91522
Custom fabricator of architectural ornament & murals: balustrades, columns, capitals & moldings in fiberglass & plaster; fine art reproduction, restoration & trompe l'oeil; interior & exterior decoration.
Write in No. 778

Wassmer Studios
800-923-4234; Fax: 816-283-0653
www.wassmerstudios.com
Kansas City, MO 64116
Manufacturer of interior & exterior ornament: cast-limestone columns, balustrades, cornices, mantels, range hoods; plaster brackets, ceiling domes, medallions, moldings & mantels.
Write in No. 1824



CALENDAR OF EVENTS

SAX STONE-CARVING WORKSHOPS, July - August 2006. Southwest Stoneworks of Rinconada, NM, is offering two stone-carving workshops this year. The first session, July 22-26, covers tool selection, care and use, quarrying, carving, sculpting as well as other topics through discussions and presentations. "East Meets West" is the title of the second session, scheduled for August 14-20. The traditional carving techniques of Japanese and European carving will be presented. Both sessions are open to all levels of experience. For more information, contact Mark Saxe at 505-579-9179 or e-mail sax@cybermesa.com.

PRESERVATION COURSES, July – October 2006. The School for Traditional Crafts and Trades at Hancock Shaker Village, in Pittsfield, MA, offers small beginner and advanced classes with master artisans throughout the summer. Courses include Blacksmithing, Historic Window Sash Preservation Workshop, Dry Stone Wall Construction and Shaker Timber Framing. For more information or to register, call 413-443-0188 or visit www.hancockshakervillage.org.

TRADITIONAL BUILDING EXHIBITION & CONFERENCE, October 5-7, 2006. This is the nation's largest event dedicated to the rehabilitation of building interiors, exteriors, landscapes, streetscapes and historically inspired traditional new construction. The conference, which will be held this fall at the Washington Hilton Hotel & Towers in Washington, DC, includes sessions with many professional learning units available through the AIA, ASLA, ASID, IIDA, AIC and the APA. For details on programs and exhibiting, go to www.traditionalbuildingshow.com.

IPTW 2006, October 26-28, 2006, Rebuilding New Orleans. In response to Hurricane Katrina, the International Preservation Trades Workshop (IPTW), sponsored by the Preservation Trades Network (PTN), is meeting this year in New Orleans to work with the residents of the historic Holy Cross District. The World Monuments Fund (WMF) is also involved in the effort to help restore the neighborhood. For more information, or to teach and facilitate workshops or to make donations of tools, materials or money, visit www.ptn.org or www.iptw.org.

CLASSICAL ARCHITECTURE COURSES, TOURS & PROGRAMS. The Institute of Classical Architecture & Classical America offers an extensive national and international program of lectures, study tours, courses & salons. Continuing-education courses, eligible for AIA continuing-education credits, in many of the design areas of Classical architecture are offered year-round by The Institute. Early registration is encouraged for the summer education programs. For details on these or other events and programs, go to www.classicist.org or e-mail academic@ma-ica.org.

THE PALLADIO AWARDS. The annual awards competition for excellence in traditional design is co-produced by *Traditional Building* and *Period Homes* magazines; awards are given in Commercial/Civic/Institutional Architecture and Residential Architecture. The deadline for entries for the 2007 awards is November 15, 2006. For complete details about past winners and entering the next competition, go to www.palladioawards.com.

WOOD-CARVING WORKSHOPS. Classically trained master wood carver Dimitrios Klitsas conducts classes in wood carving for novices as well as professionals looking to take skills to the highest level. Classes are available both for groups and individual instruction. For more details, go to www.klitsas.com.

WORKSHOPS ON HISTORICAL LIME MORTARS. A comprehensive two-day course details the hows and whys of using lime putty mortars for re-pointing historic masonry. The workshop combines lectures and laboratory work with hands-on lime slaking and re-pointing on all different types of historic masonry walls. For course schedules and registration details, call 773-286-2100 or go to www.usheritage.com/events.htm.

PRESERVATION EDUCATION PROGRAMS. Throughout the year, the Preservation Education Institute – a program of Vermont-based Historic Windsor, Inc. – offers workshops on various preservation skills, technology and practice for building and design professionals, property owners and others. This year, courses include wood carving, plaster repair, window repair and timber-frame evaluation and repair. For a compete listing of current programs, go to www.preservationworks.org or contact Judy Hayward at 802-674-6752.

NATIONAL BUILDING MUSEUM PROGRAMS & EXHIBITS. The National Building Museum, Washington, DC, has a series of exhibits and programs throughout the year on topics dealing with architectural design and building. Many of the programs offer AIA continuing-education units – and the building itself is worth the visit. For details on current programs, go to www.nbm.org.

Custom Flooring

To order product literature, go to www.traditional-building.com and click on "Free Product Literature" or fill out the card at page 34. To order literature from all of the companies listed here, enter No. 9810.

American Restoration Tile manufactured this 1-in. hexagonal, unglazed porcelain tile for a building in Little Rock, AR.

American Restoration Tile, Inc.
501-455-1000; Fax: 501-455-1004
www.restorationtile.com
Mabelvale, AR 72103

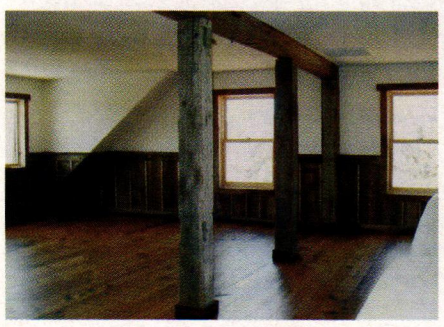
Custom manufacturer of historical tile: for fireplaces, flooring, kitchens, baths & custom mosaics; restoration & new construction; custom matching of glazed & unglazed tile.
Write in No. 8032

Authentic Wood Floors, Inc.
800-765-3966; Fax: 717-428-0464
www.authenticwoodfloors.com
Glen Rock, PA 17327

Supplier of reclaimed lumber from barns & warehouses: recycled into flooring, beams, paneling, molding, wainscoting & other products; milled & kiln dried.
Write in No. 8000

Brandt, Sylvan
717-626-4520; Fax: 717-626-5867
www.sylvanbrandt.com
Lititz, PA 17543

Manufacturer of salvaged wood flooring, ceiling boards & paneling: wide board, random width & weatherboard (barn siding); chestnut, oak, pine, heart pine, cypress, walnut, hemlock, fir & hickory; other antique building materials.



The antique flooring, beams, barn-wood trim and wainscoting were supplied by Carlson's Barnwood for this new building in Arizona.

Carlson's Barnwood Co.
309-522-5550; Fax: 309-522-5123
www.carlsonsbarnwood.com
Cambridge, IL 61238

Supplier of antique barnwood & salvaged materials: planks, beams, dimensional lumber, re-milled flooring & architectural antiques; pine & oak; complete timber frames & barns; salvaged doors, windows & shutters.
Write in No. 2744

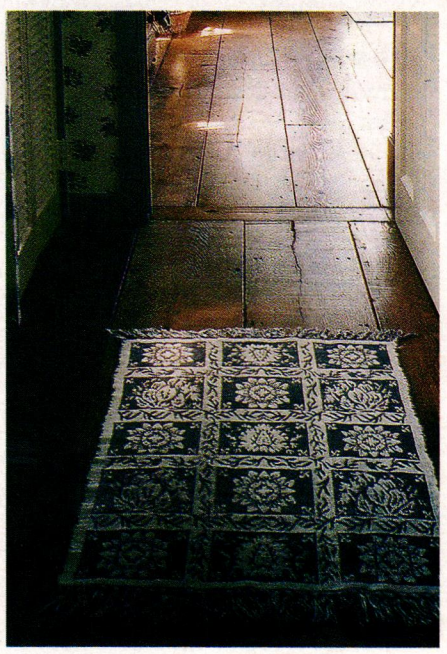
Champlain Stone, Ltd.
518-623-2902; Fax: 518-623-3088
www.champlainstone.com
Warrensburg, NY 12885

Manufacturer of building & landscaping stone & stone flooring: guillotined & hand-split granite, quartzitic sandstone & limestone; for fireplaces, building veneer, wall stone, flagging, paving, step slabs & retaining walls.
Write in No. 4270

"Doc" Wasley of Chestnut Specialists displays a few of the wide antique boards that his firm offers in chestnut, oak and pine.

Chestnut Specialists, Inc.
860-283-4209; Fax: Same as phone
www.chestnutspec.com
Plymouth, CT 06782

Manufacturer of antique wood for flooring: chestnut, oak, pine & hemlock; hewn barn beams, weathered siding & sheathing planks.
Call for more information.



Wide-board flooring made from reclaimed chestnut, oak, pine and hemlock is the specialty of Chestnut Woodworking.

Chestnut Woodworking & Antique Flooring
860-672-4300; Fax: 860-672-2441
www.chestnutwoodworking.com
West Cornwall, CT 06796

Installer of recycled flooring: timbers, wide board, re-milled tongue-&-groove & antique wood; chestnut, oak, white pine, heart pine & hemlock; kiln dried.
Call for more information.

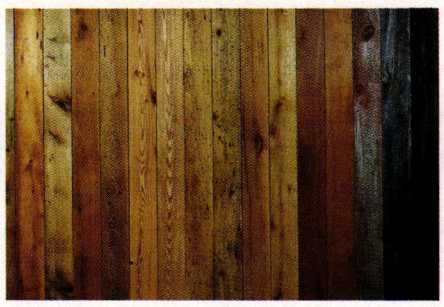
Conklin's Authentic Barnwood
570-465-3832; Fax: 570-465-3835
www.conklinsbarnwood.com
Susquehanna, PA 18847

Supplier of reclaimed & resawn antique lumber: flooring in white pine, chestnut, heart pine, antique oak & hemlock; weathered barnwood, hand-hewn beams, pole rafters, used metal roofing & other antique barn materials.

Conklin's Barnwood supplied the skimmed barn-wood flooring, pole rafters, hewn ridge beams and hand-hewn mantels in this room.

Country Road Associates, Ltd.
845-677-6041; Fax: 845-677-6532
www.countryroadassociates.com
Millbrook, NY 12545

Supplier of reclaimed wood: wide board & random width; chestnut, maple, oak, pine, heart pine, cherry, elm & walnut; distributor of reclaimed barn siding, hand-hewn beams, paneling & cabinetry.
Write in No. 7480



Country Road Associates produces handcrafted flooring and cabinetry from 19th-century reclaimed white pine, hemlock, oak, heart pine, chestnut, cherry and walnut.

Foster Wood Products
800-682-9418; Fax: 706-846-3487
www.fosterwood.com
Shiloh, GA 31826

Supplier of wood flooring: heart & longleaf yellow pine; large timbers.
Write in No. 1277

Hull Forest Products
800-353-3331; Fax: 860-974-2963
www.hullforest.com
Pomfret Center, CT 06259

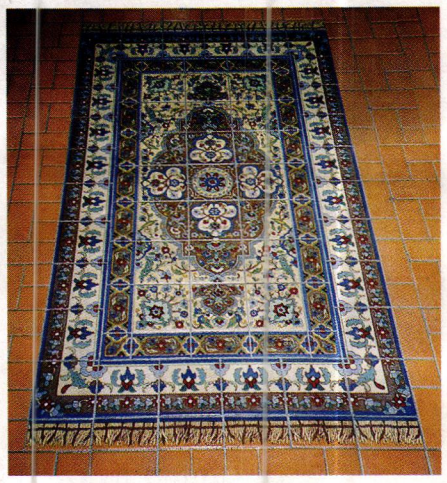
Supplier of premium large-plank flooring direct from mill: Ambrosia maple, red oak, white oak, hickory & pine; 3- to 20-in. widths; 4- to 16-ft. lengths; large selection of profiles; post-&-beam timbers up to 26 ft.
Write in No. 5002

John Tiedemann Inc.
877-600-2666; Fax: 201-991-3419
www.johntiedemann.com
North Arlington, NJ 07031

Restorer of interior elements: interior painting & design, liturgical renderings, decorative granite flooring, faux finishes, murals & frescoes, gilding, art restoration, paint & plaster analysis, historic analysis & testing.
Write in No. 1765

Longleaf Lumber, LLC
617-871-6611; Fax: 617-871-6615
www.longleaflumber.com
Cambridge, MA 02138

Manufacturer of antique wood for flooring & beams: wide board, strip & random width; chestnut, antique eastern white pine, longleaf heart pine reclaimed from old mills, oak, maple, bamboo & cork; custom work.
Write in No. 272



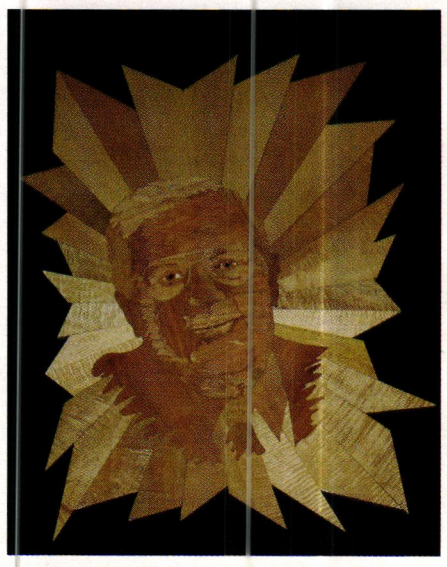
Native Tile & Ceramics creates its "rug" flooring patterns using processes such as Cuerda Seca or Resist Line.

Native Tile & Ceramics
310-533-8684; Fax: 310-533-8453
www.nativetile.com
Torrance, CA 90501

Manufacturer of handmade decorative tile: floor inserts, trim, fireplace fronts, murals & tile rugs; Mission, Craftsman & Deco styles; inspired by Batchelder, Malibu & Catalina tile companies; custom designs & glazes.
Write in No. 570

Osborn, Thomas D., Mosaic Hardwood Floors
413-532-9034; Fax: Same as phone
www.thefloorist.net
Holyoke, MA 01040

Designer, custom fabricator & installer of mosaic floors: marquetry & inlaid; native & exotic hardwoods; all 3/4 in. thick.
Write in No. 4790



Commissioned by a university to honor a major donor, Thomas D. Osborne created this mosaic hardwood floor in cherry and maple.

Wood Moisture Meters

Detect and avoid Moisture Problems

We offer:

A modern, digital moisture meter with electrode to detect different moisture levels within hardwood floors, structural lumber, insulation.

Pin-point excess moisture accurately! Ask about "Professional Package" with electrodes for wood and hard / soft building materials (concrete, drywall) and a thermo-hygrometer for ambient air conditions.

Mini-Ligno DX/C
Electrode E12

Lignomat USA
PO Box 30145 Portland, OR 97294
Tel: 503/257-8957, 800/227-2105

WRITE IN NO. 1120

ANTIQUE FLOORING BEAMS, AND CUSTOM MILLING

Antique Heart Pine, White Pine, Chestnut, Oak and Other Fine Woods.

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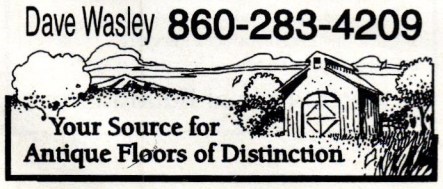

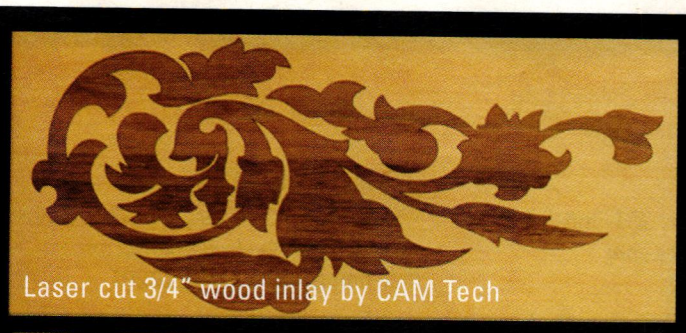

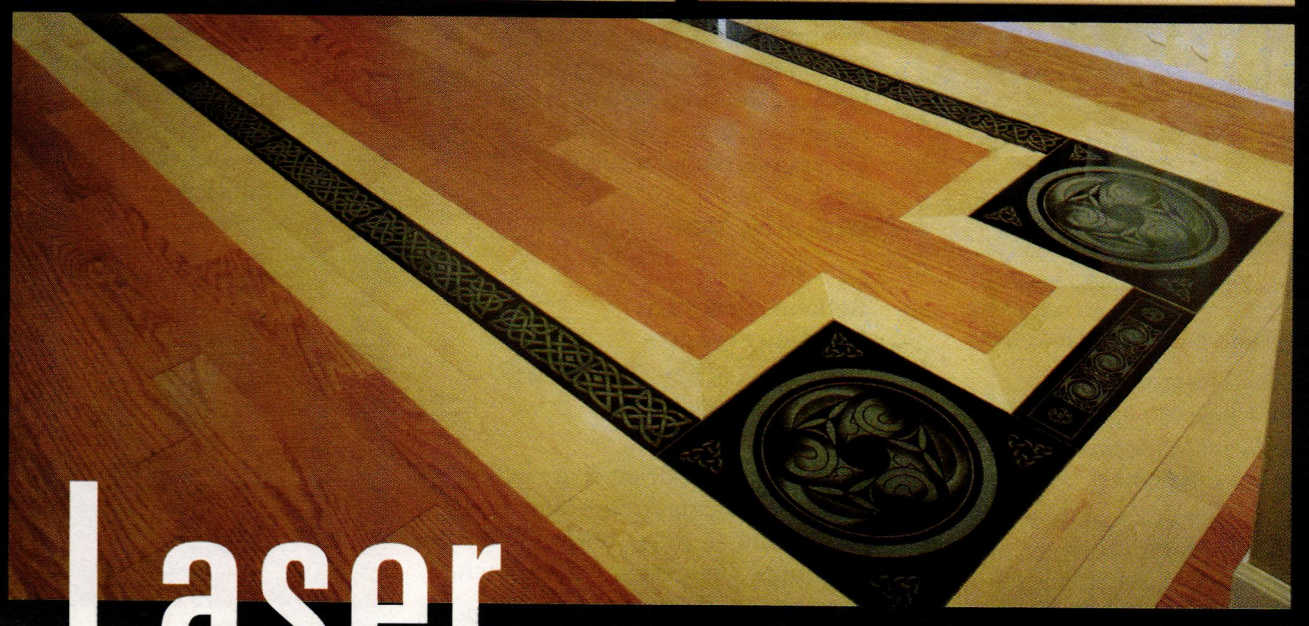

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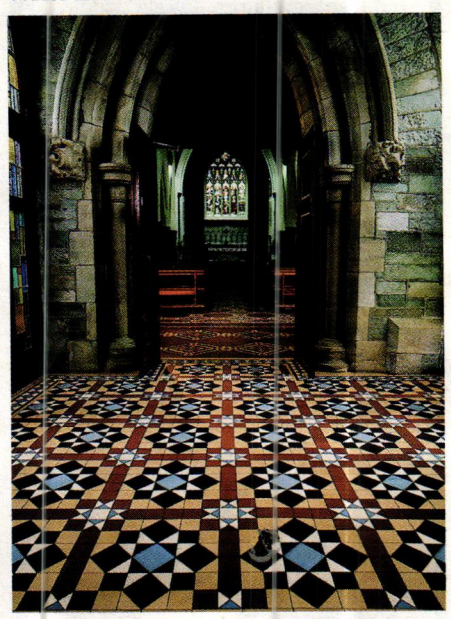

The Victorian-style tile in this church was supplied by Tile Source.

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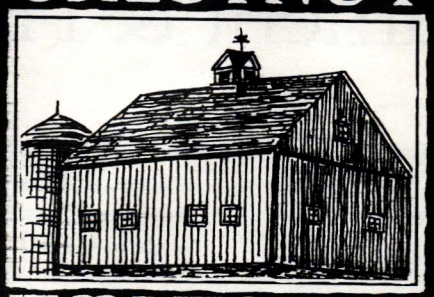

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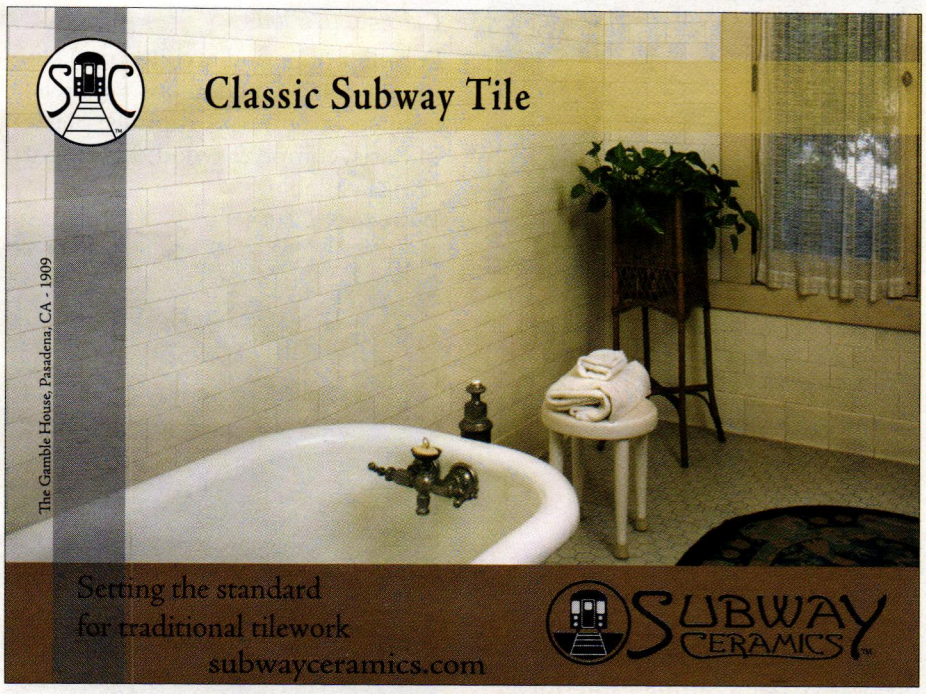

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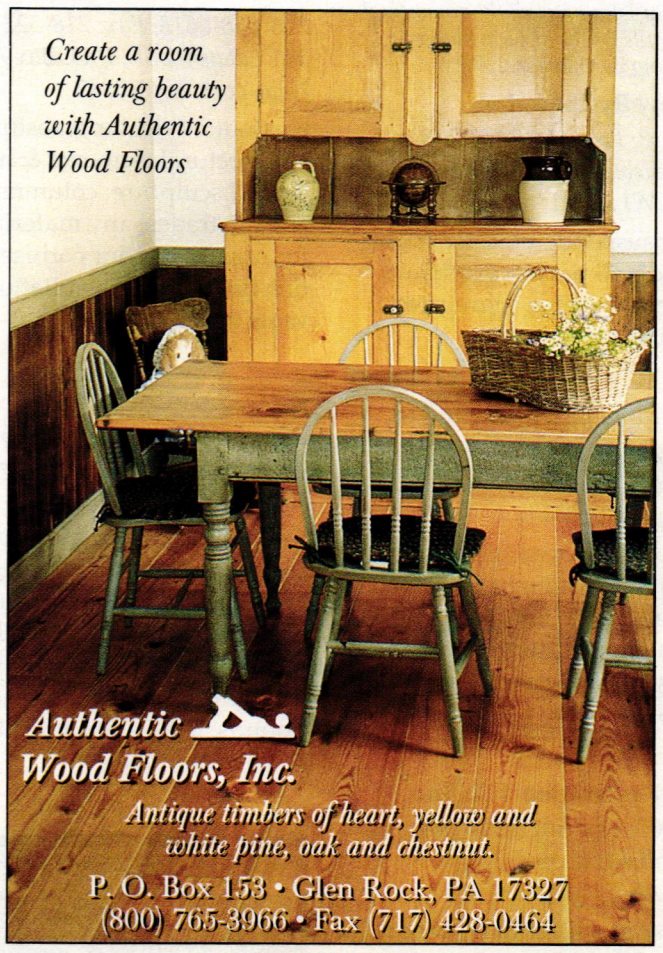

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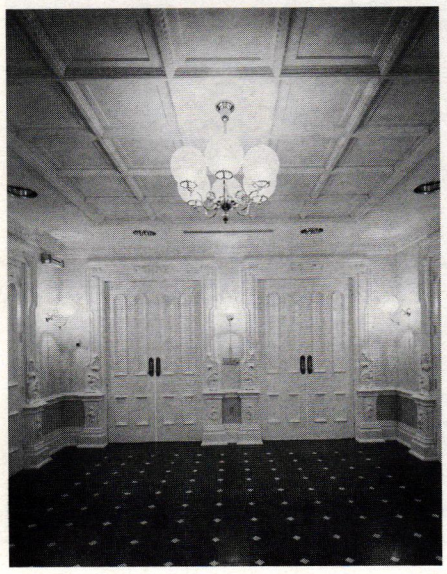

Above View By Tiles supplied the ornamental plaster ceiling tile for the historic Matthew Keenan Building in Milwaukee, WI.

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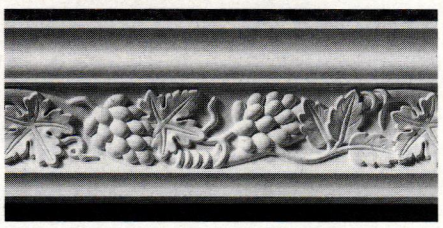

Balmer Architectural Mouldings manufactures decorative interior moldings in gypsum, plaster and polyurethane.

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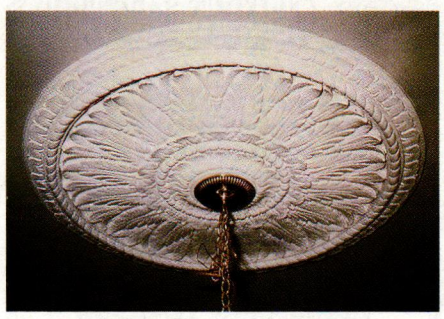

Cast Designs & Supply custom designed this 36-in. ceiling medallion.

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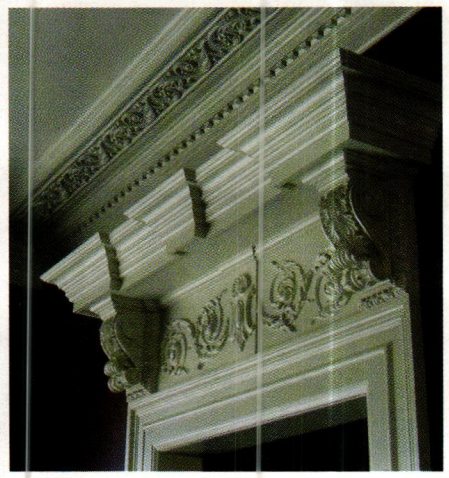

Decorators Supply provided the ornament and brackets for this interior.

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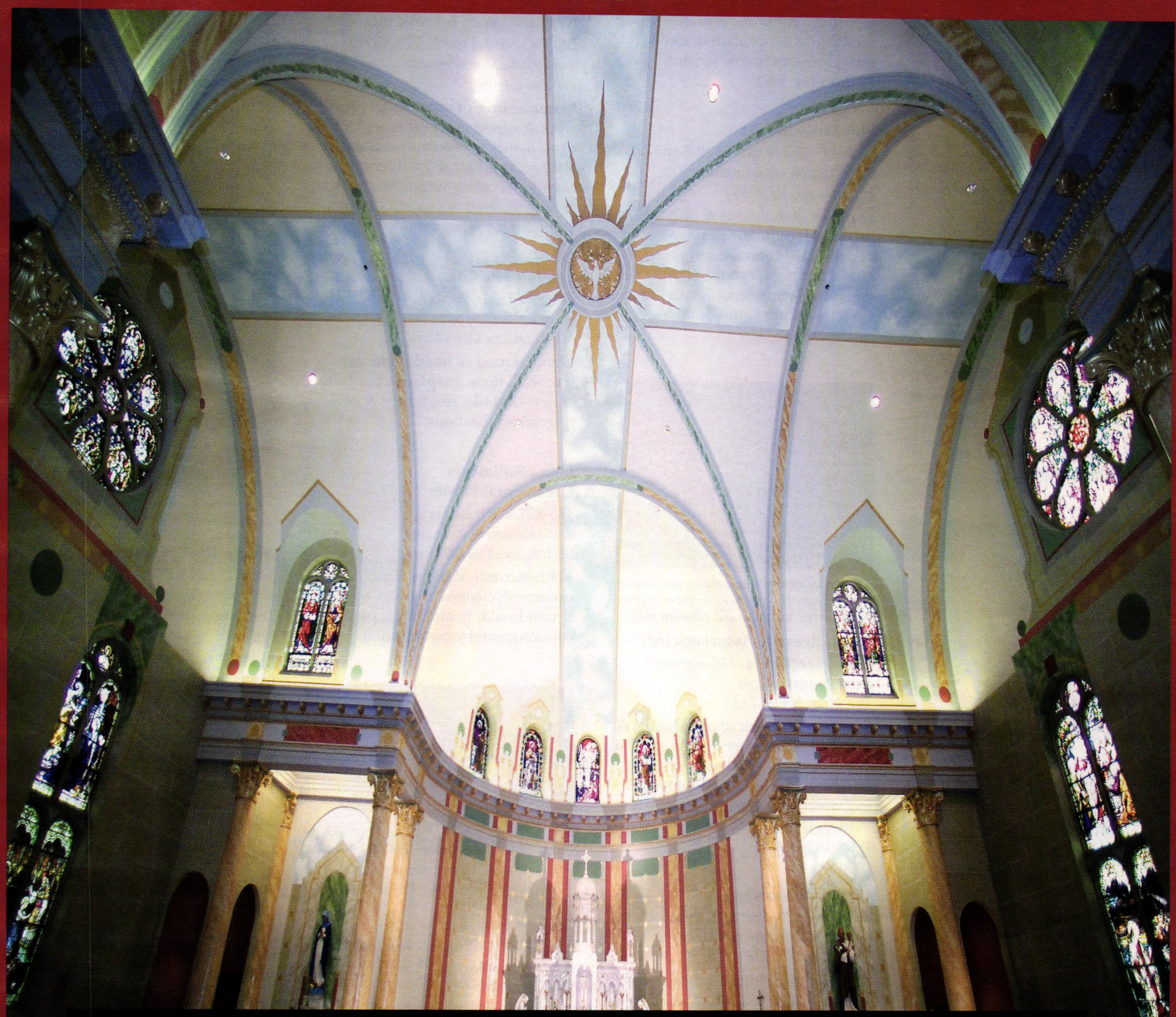

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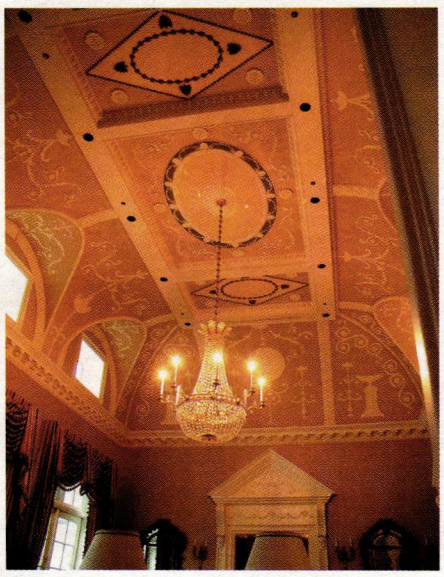

This 20x30-ft. ceiling was created by Felber in a style made popular in the 1760s and 1770s by the English architects Robert and James Adam.

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Fischer & Jirouch fabricated this traditionally styled cornice molding.

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www.fischerandjirouch.com
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Manufacturer of handcrafted plaster moldings: columns, capitals, ceiling medallions & fireplace mantels; interior & exterior ornament.
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Supplier of moldings & polymer ornament: ceiling medallions, spot decorations, capitals, simulated wood carvings & more; rigid & flexible polyester; restoration casting; custom casting & moldmaking capabilities.

This ornamental plaster ceiling, fabricated by Foster Reeve & Associates, features custom hand-carved sculpture and elliptical trim.

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Goodwin Associates supplied the fiberglass dome and polyurethane moldings for this ceiling.

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The panels and cornice molding used to create the tin ceiling at this café were supplied by M-Boss.

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Michael A. Dow hand carved these 30-in.-tall acanthus-leaf brackets in Honduras mahogany.

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Native Tile & Ceramics supplied the handmade period-style decorative tile for this mantel.

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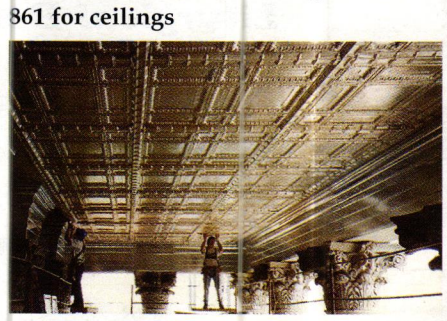

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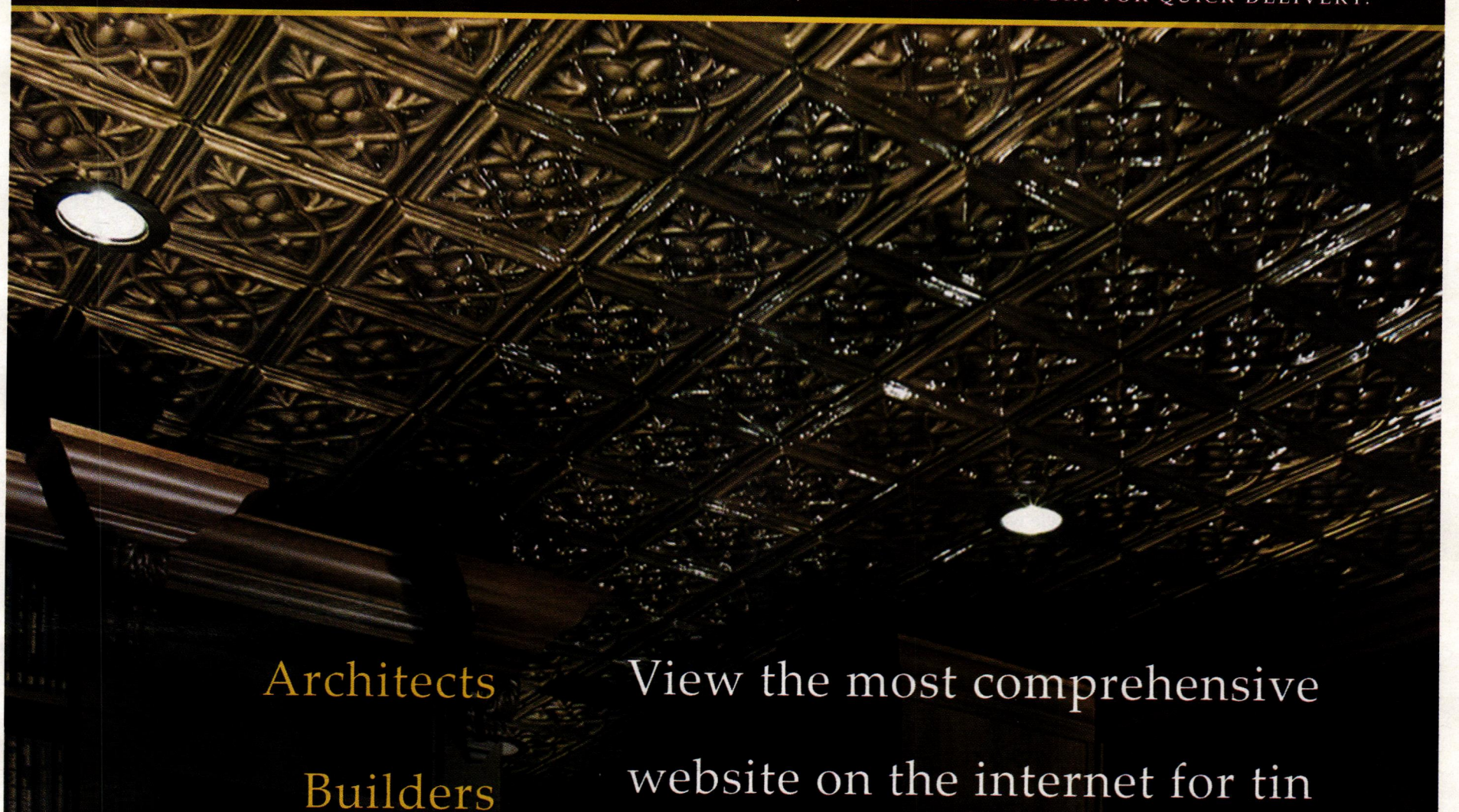

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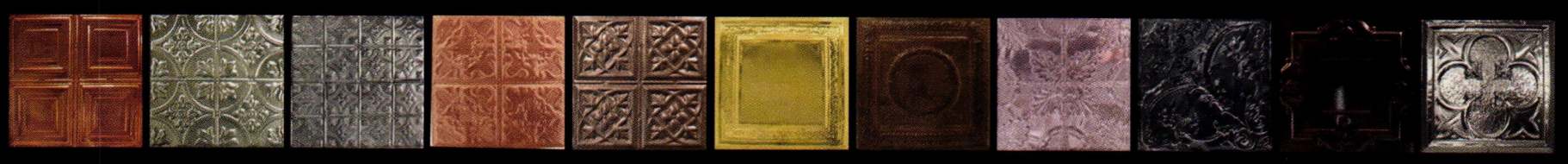

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This Oriental-style ceiling was created for the Schuster Mansion Bed and Breakfast in Milwaukee, WI, using pressed-tin tile from W.F. Norman.

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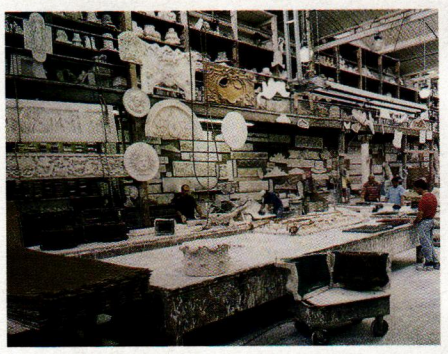
A variety of interior molded ornament is created in the Warner Bros. studio.

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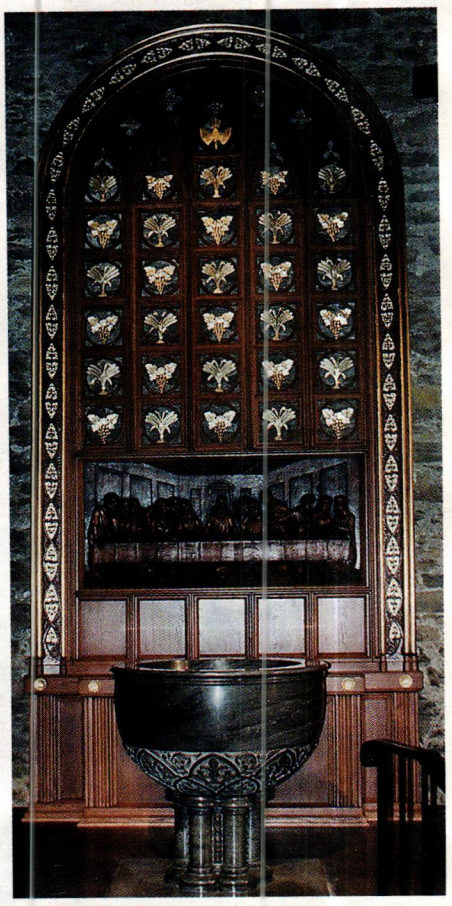
Frederick Wilbur restored this baptismal screen at the Grace & Holy Trinity Cathedral in Kansas City, MO.

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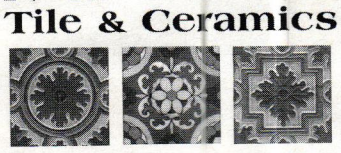

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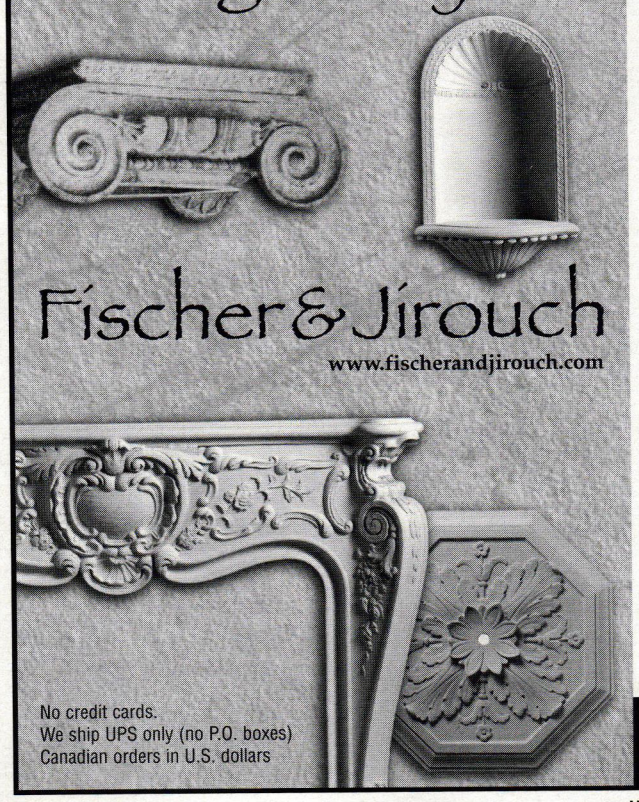

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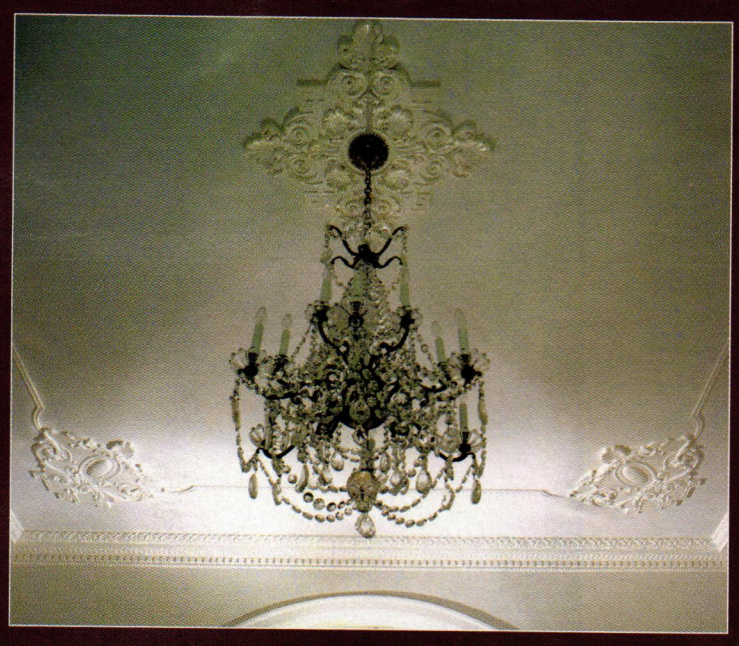

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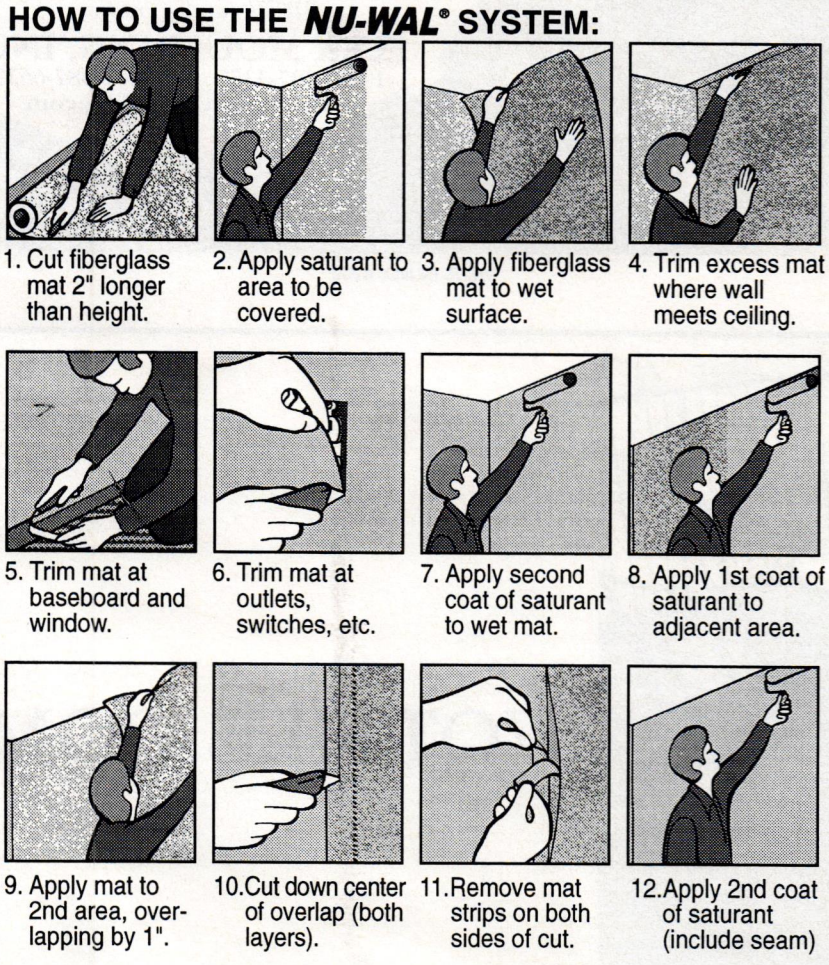

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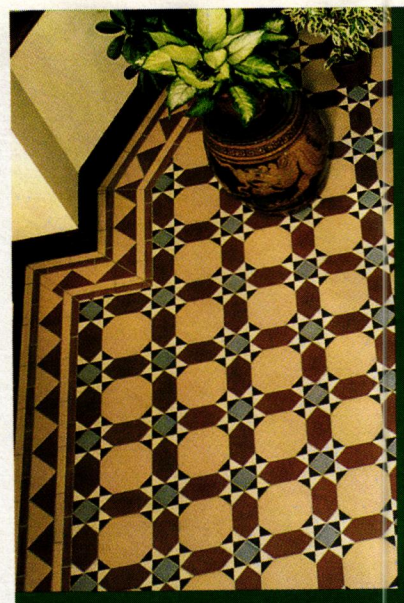

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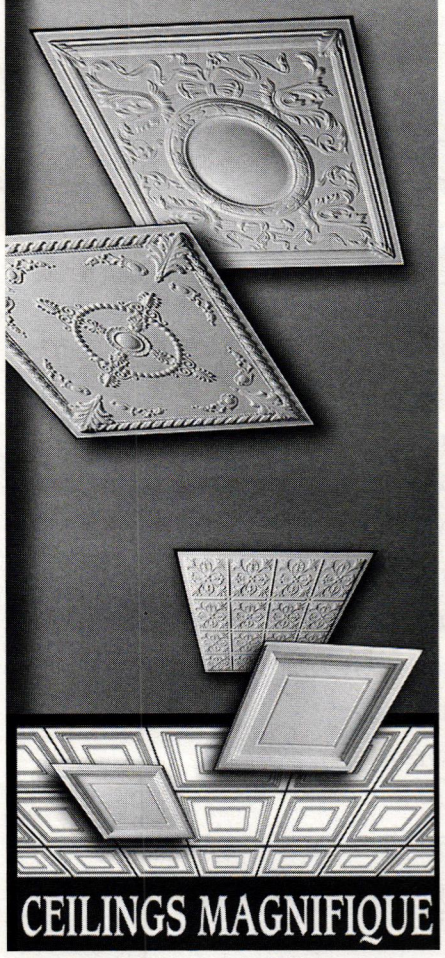

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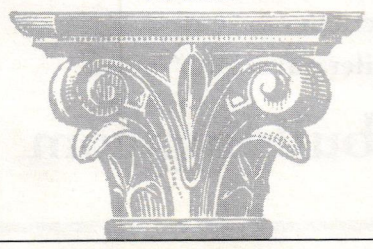

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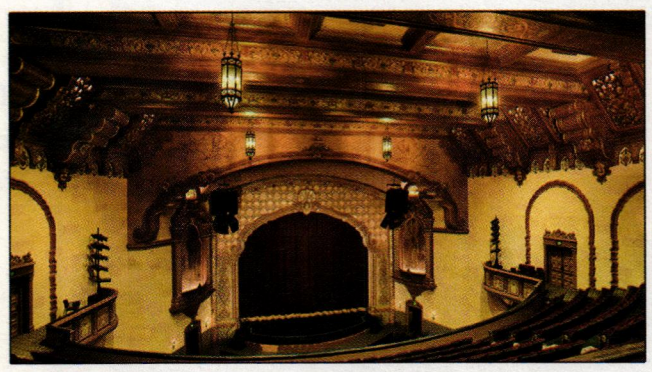

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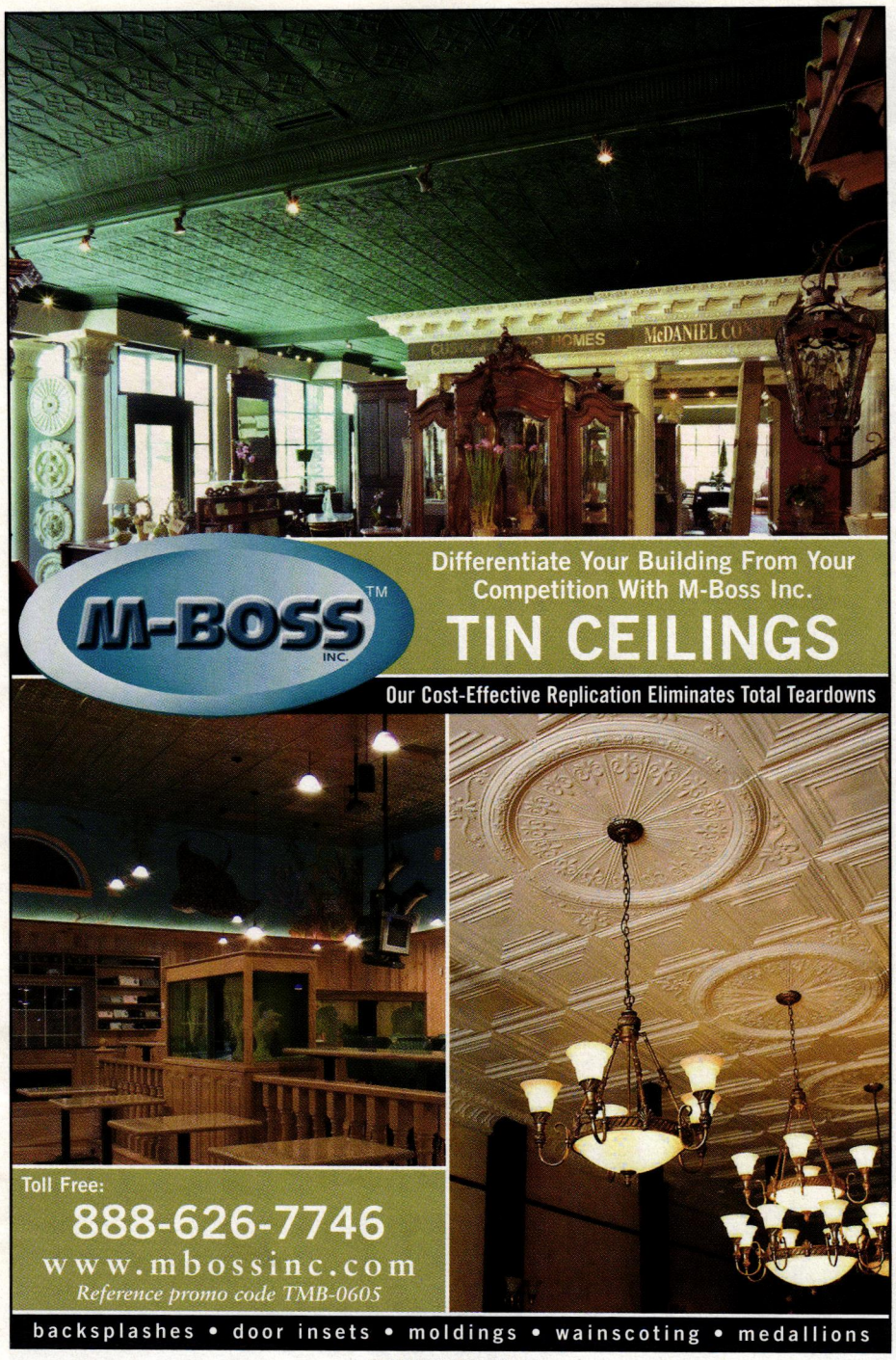

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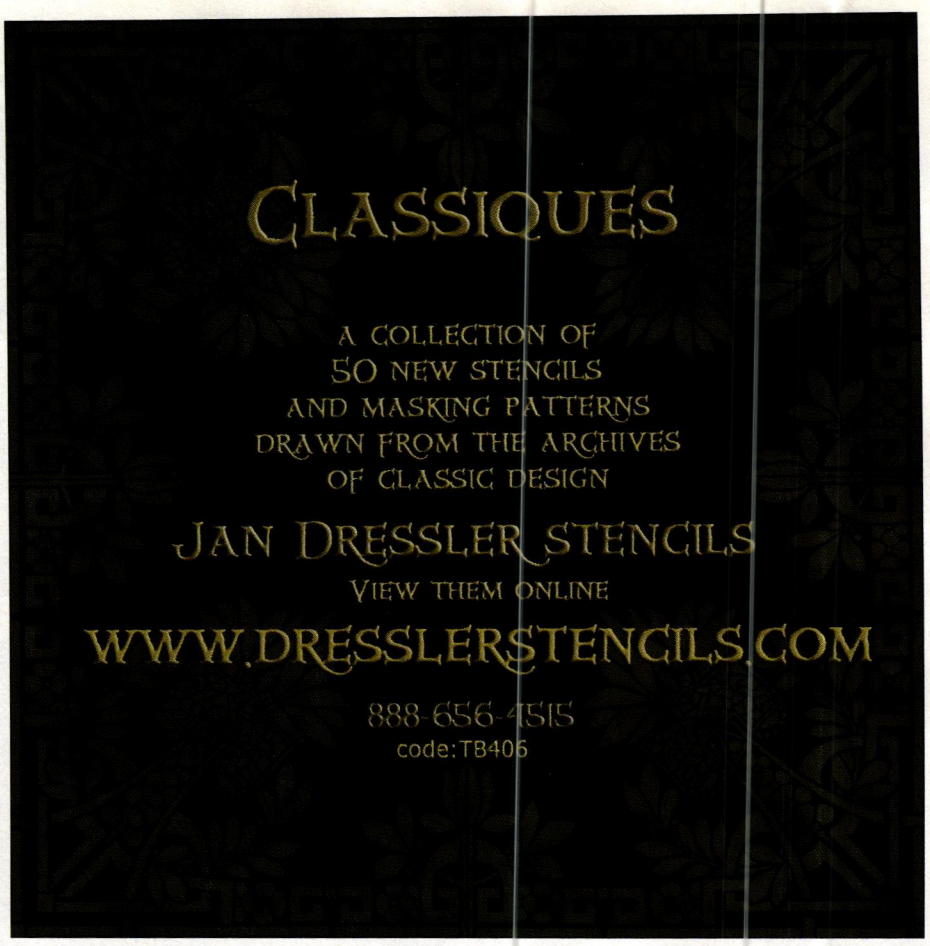

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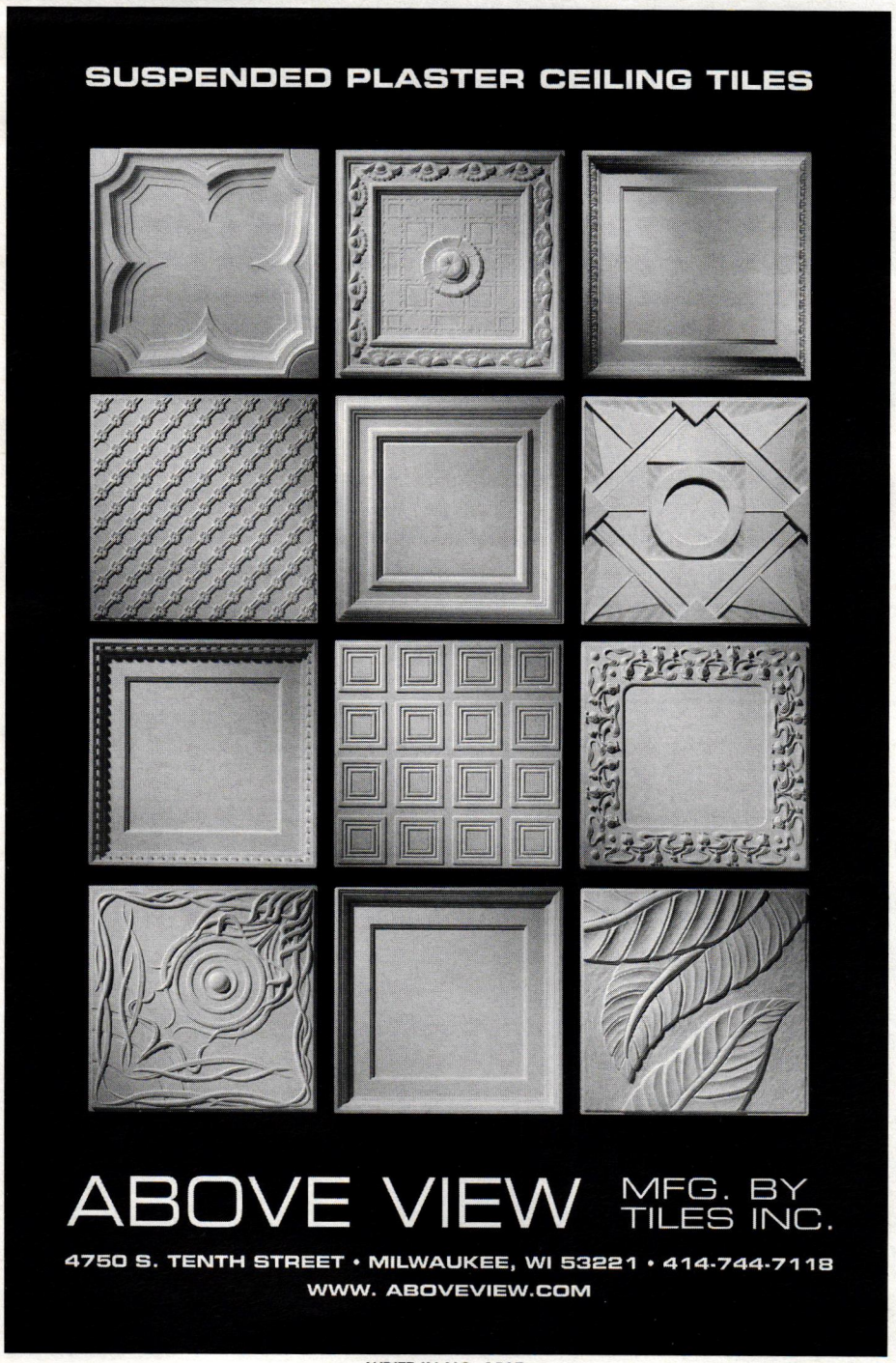

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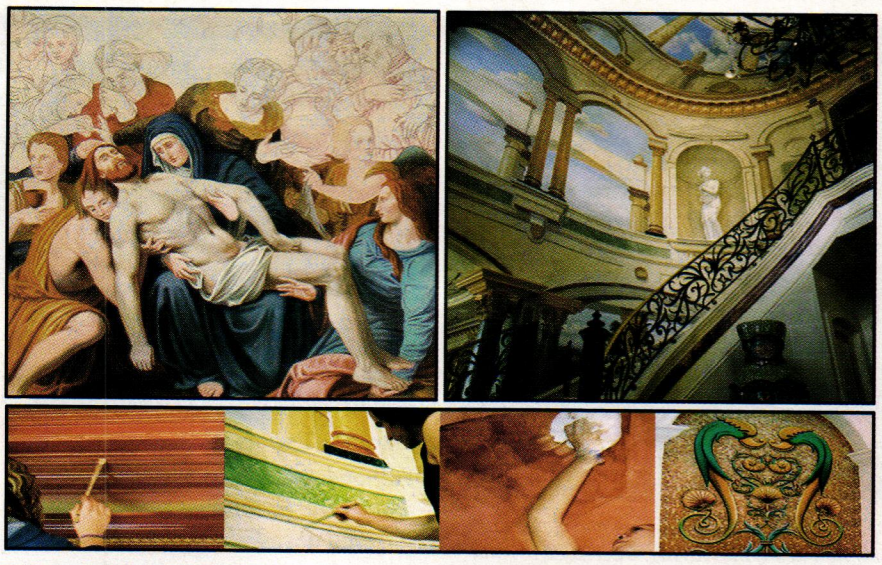

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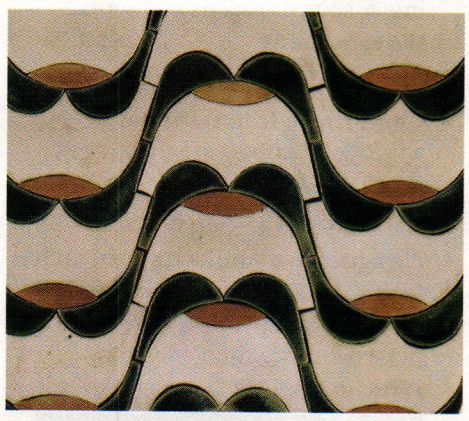

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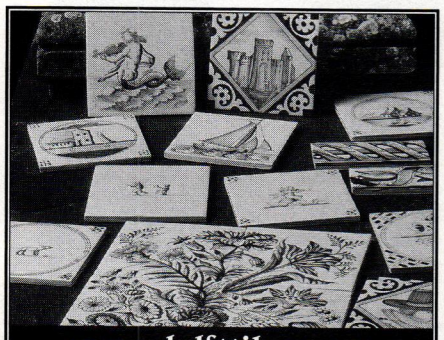

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www.acornmfg.com
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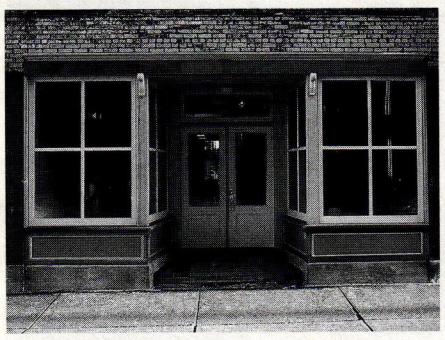

These storefront windows and door were custom fabricated by Adams Architectural Wood Products.

Adams Architectural Wood Products
888-285-8120; Fax: 563-285-8003
www.adamsarch.com
Eldridge, IA 52748
Custom fabricator of windows & doors: screen & storm doors, sashes & transoms; historical reproductions & restoration work; storefronts, ecclesiastical & other settings.
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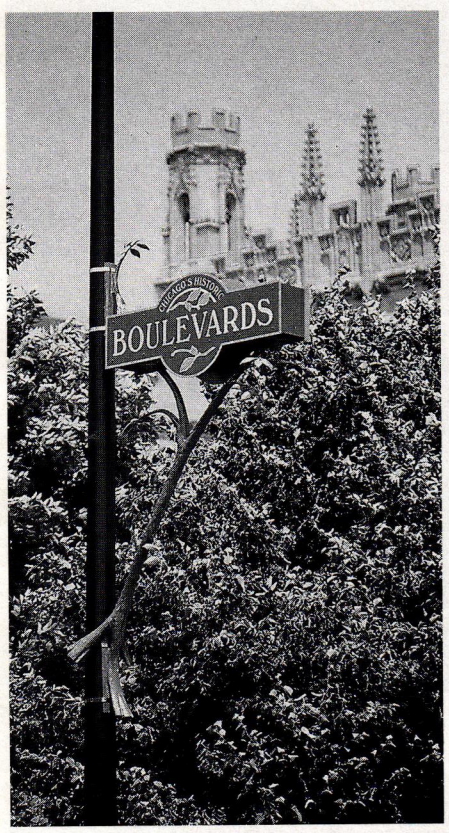

This decorative sign is one of the many custom castings completed by Allen Architectural Metals.

Allen Architectural Metals, Inc.
800-204-3858; Fax: 256-761-1967
www.allenmetals.com
Talladega, AL 35161
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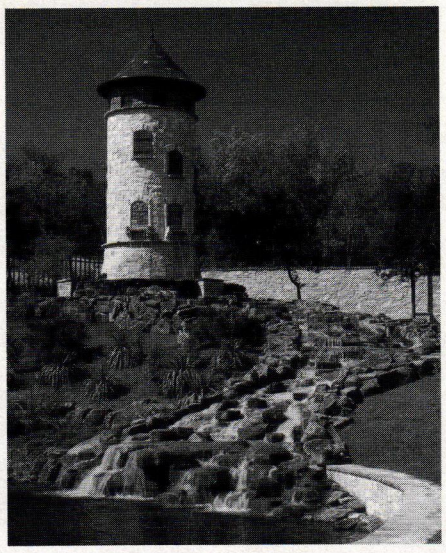

Aqua Control supplies submersible pump technology for waterfalls and streams, from ½- to 40-hp and up to 1,500 gallons-per-minute.

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www.archpot.com
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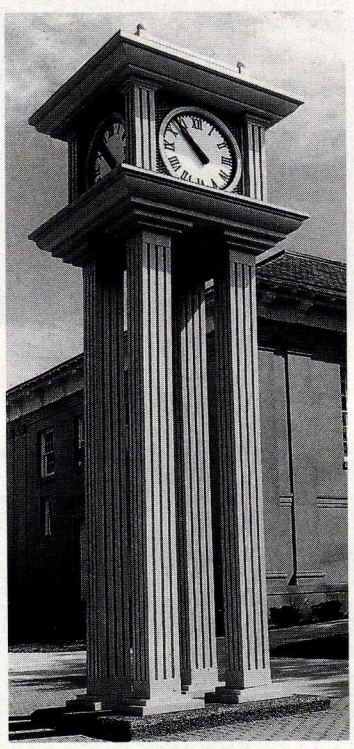

Campbellsville Industries created this clock and tower at Muirhead Plaza in Dearborn, MI.

Cantera Especial produces a variety of architectural elements in Cantera & Adoquin, limestone, sandstone, travertine, granite, GRC, GRG and concrete.

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www.canterburyintl.com
Los Angeles, CA 90016
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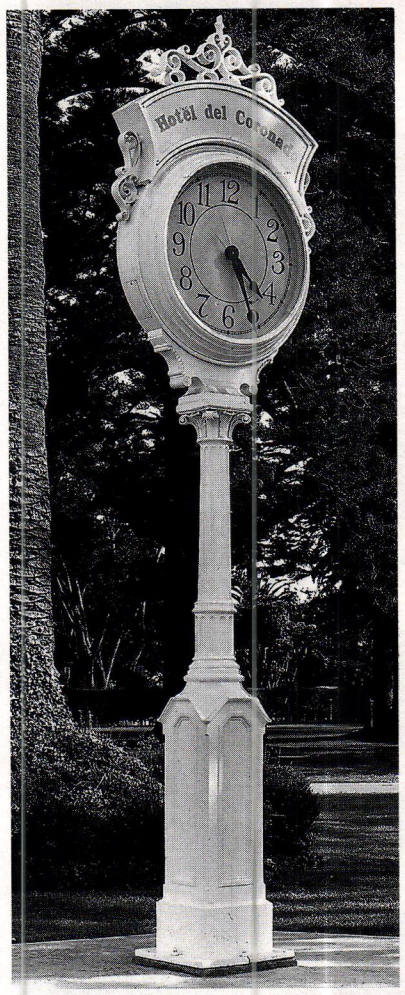

Street clocks by Canterbury International are custom fabricated in aluminum, cast iron or bronze and are UL approved.

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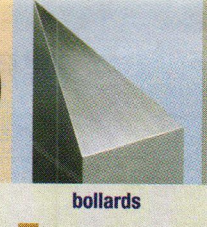
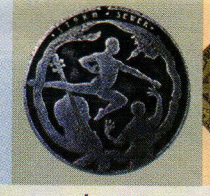
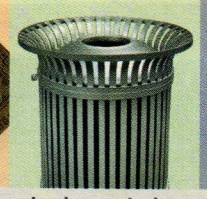
clocks

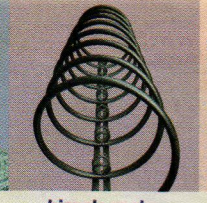

bollards

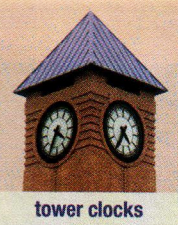

plaques

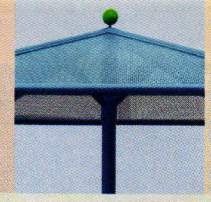
tree grates


trash receptacles

sculptures


bicycle racks


tower clocks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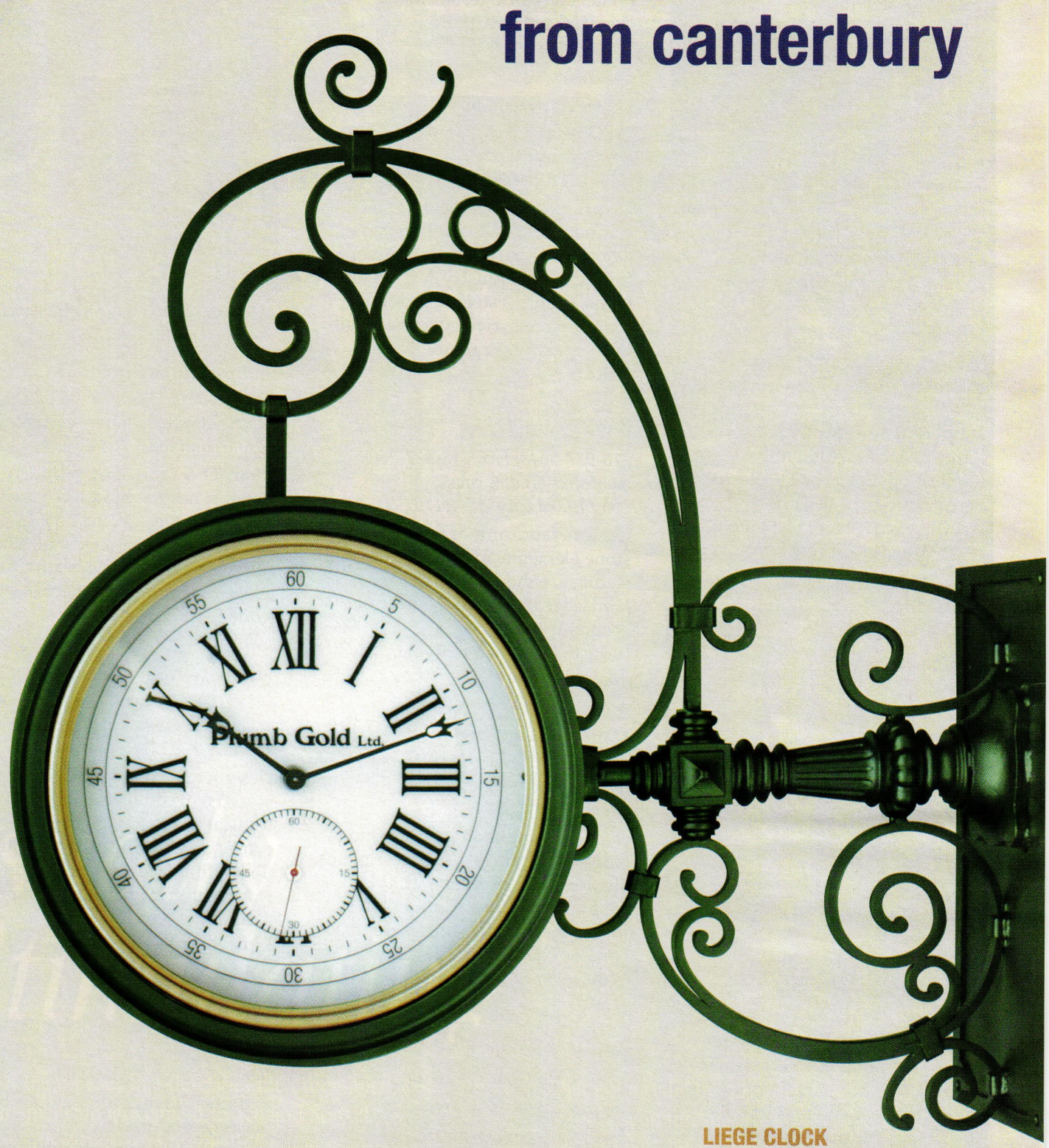

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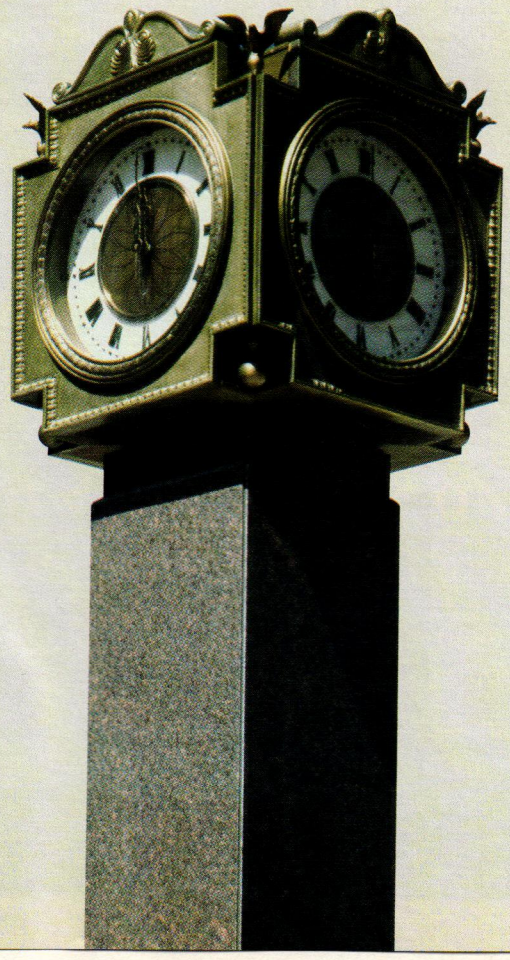
Size: 20" dia. with twin backlit dials. Dials have roman numbers. Sweep second hand dial. Cast aluminum case. Wrought steel scroll, cast iron post. Wall or ceiling mount.



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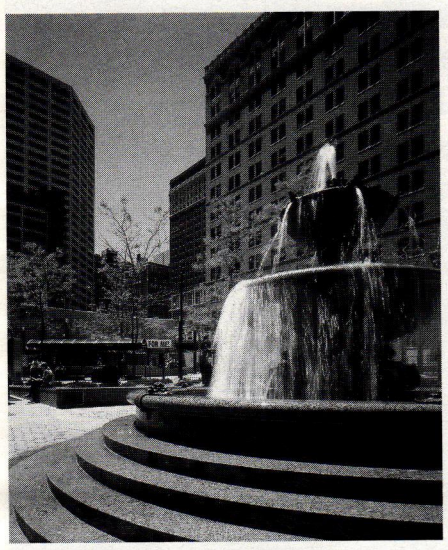

This aluminum and bronze fountain by Historical Arts & Casting stands 12 ft. 3 in. tall with a bowl diameter of 19 ft. 2½ in. at Transit Plaza, Kansas City, KS.

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This "Child with Otter" sculpture was manufactured by Kenneth Lynch & Sons for use with a fountain.

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www.klynchandsons.com
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www.kirkpatrick.co.uk
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www.lakefountains.com
Sanford, FL 32771
Manufacturer of floating fountains for lakes & ponds: variety of spray heights & patterns.
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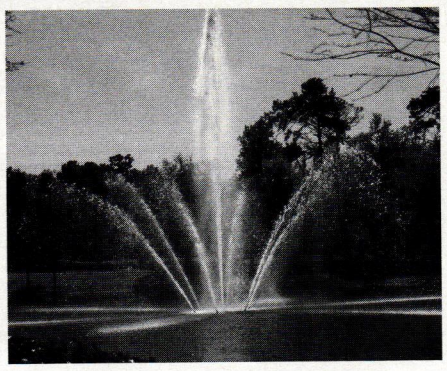

This 15-hp Lake Forest model from Lake Fountains & Aeration operates at up to 40 ft. high with a 50 ft. diameter pattern, and comes equipped with a control panel, time clocks, underwater power cable and lighting kit.

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www.libertyornamental.com
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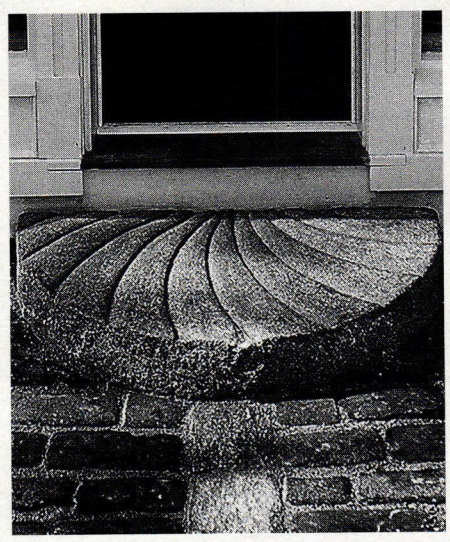

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www.ornamentaliron.net
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www.nationalgateworks.com
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www.newenglandcastinstone.com
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www.okfoundrycompany.com
Richmond, VA 23224
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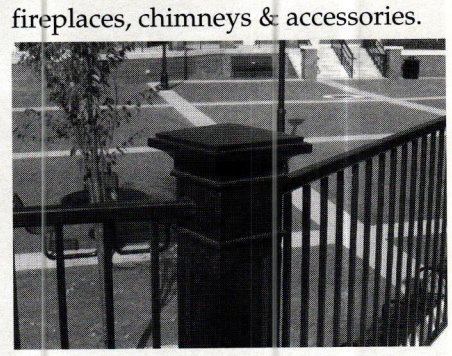

This custom cast iron stanchion was fabricated by O.K. Foundry.

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www.handmadebrick.com
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Manufacturer of handmade brick, pavers, arches & special shapes: custom & stock designs; restoration consulting & matches.
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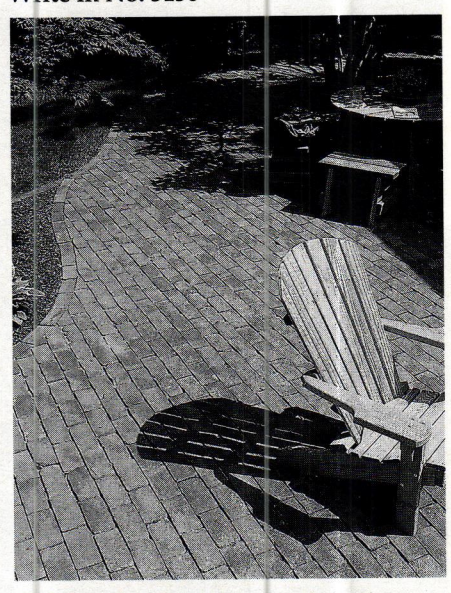

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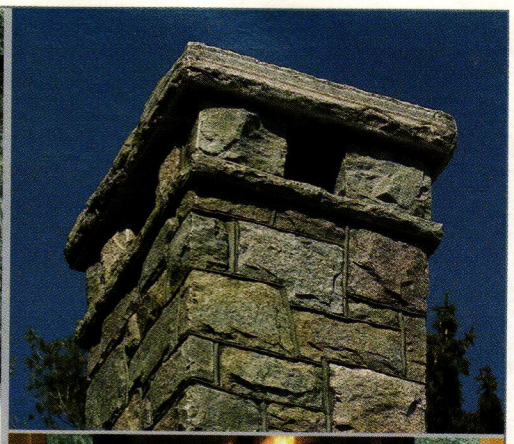
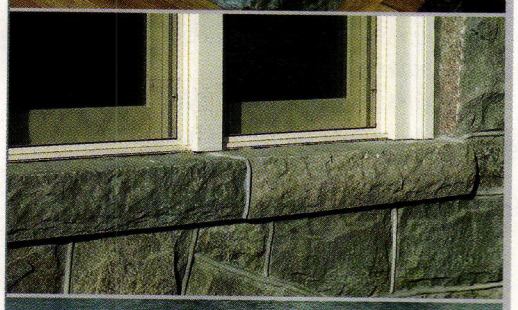
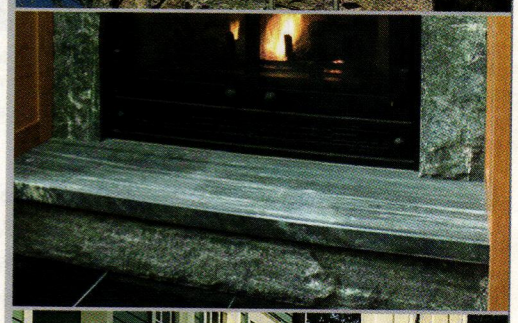
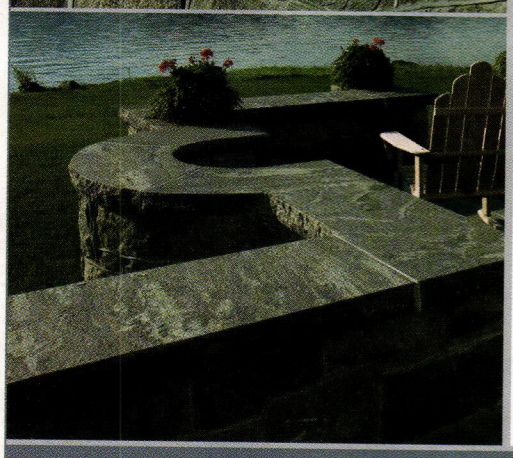
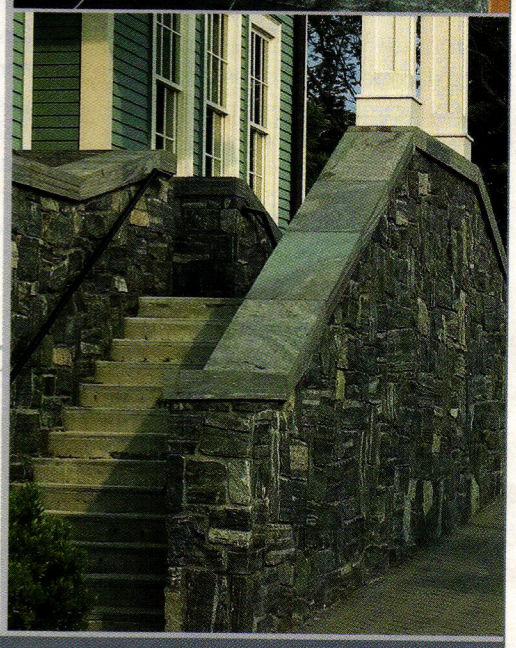

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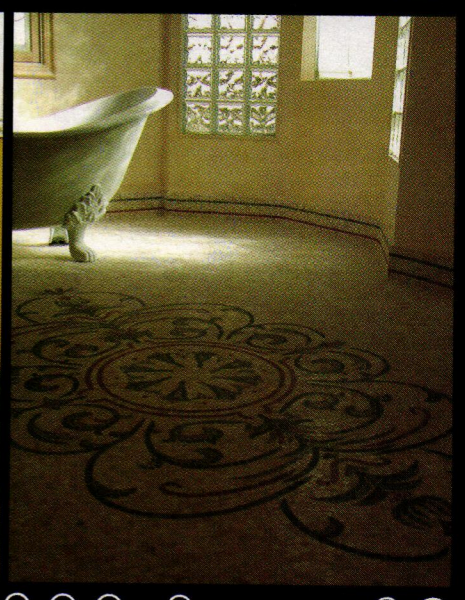

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www.romancingthewoods.com
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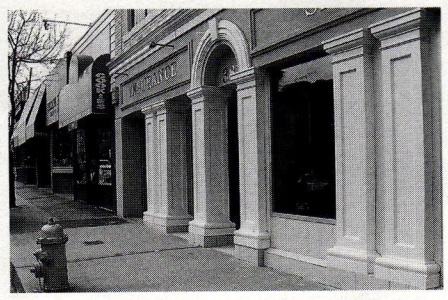
Manufacturer of rustic garden structures: benches, bridges, railings & gazebos; eastern red cedar & other woods indigenous to NY Catskill Mountain region; 19th-century style of European estate gardens & the Adirondack Great Camps.

This 22.-in.-tall bronze figure stands in a 36-in. dia. spun brass bowl at the Huntington Museum of Fine Art, Huntington, WV; both were fabricated by Schiff Architectural Detail.

Schiff Architectural Detail
617-887-0202; Fax: 617-887-0127
www.schiffarchitectural.com
Chelsea, MA 02150
Custom fabricator of metalwork: exterior lamps, lampposts, plaques, fences, fountains & railings; non-ferrous forged work; machine-shop service; rubber molding & pattern work; historical restoration & conservation.
Write in No. 7730

Seal Reinforced Fiberglass, Inc.
631-842-2230; Fax: 631-842-2276
www.sealfiberglass.com
Copiague, NY 11726
Supplier of FRP building components: cornices, cupolas, columns, balustrades, brackets, planters, urns, water features & garden ornament; full-service mold & tool fabricator; on-site molds.
Write in No. 4620 for cornices; 1353 for cupolas



The original terra-cotta pilasters of this storefront were replicated in fiberglass by Seal Reinforced Fiberglass.

Seibert & Rice
973-467-8266; Fax: 973-379-2536
www.seibert-rice.com
Short Hills, NJ 07078
Importer & distributor of Italian terra-cotta items: benches, garden planters, urns & ornament; high relief, fine detailing & frost proof; handmade; from Impruneta, Italy; extensive inventory; custom capabilities; catalog $5.
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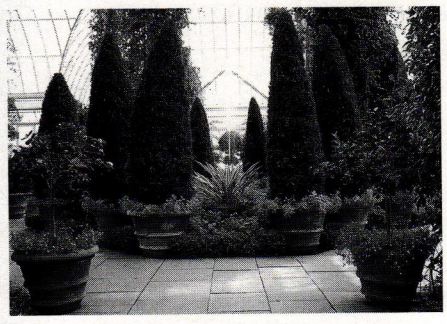

These planters are from Seibert & Rice's Molded Rolled Rim Collection, and are handmade without the assistance of molds.

Signon USA
866-744-6661; Fax: 718-485-8400
www.signonusa.com
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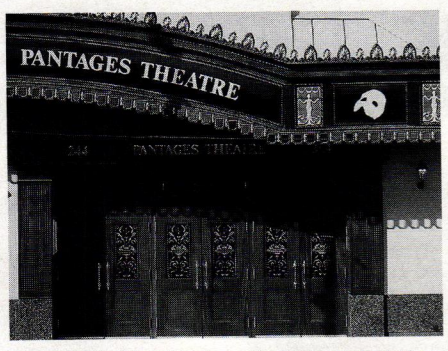

Steptoe & Wife fabricated and installed this ornate sheet-metal canopy for Toronto's Pantages Theatre.

Steptoe & Wife Antiques Ltd.
800-461-0060; Fax: 416-780-1814
www.steptoewife.com
Toronto, ON, Canada M6B 1V9
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Ancram, NY 12502
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Write in No. 8270

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www.verdin.com
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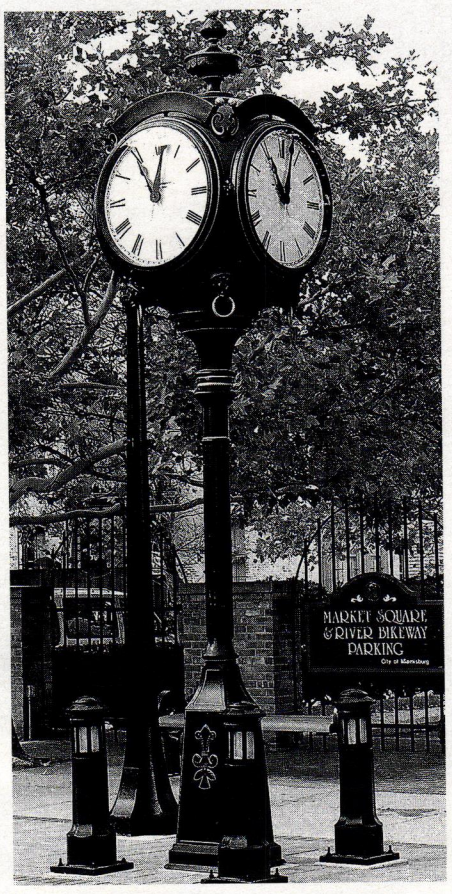

This traditionally styled multiple-faced street pedestal clock and bollards were manufactured by The Verdin Company.

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www.tile-source.com
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905-891-2516; Fax: 905-891-7446
www.tfmc.com
Mississanga, ON, Canada L5E 1H2
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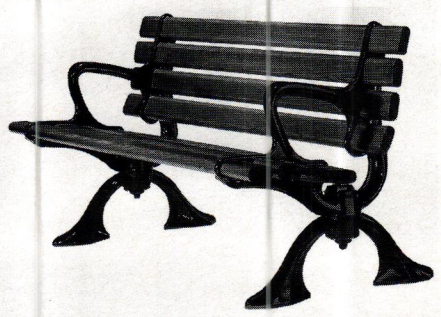
Write in No. 2709



The range of site furnishings from Toronto Fabricating includes this bench, model #7170.

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www.torrancesteelwindow.com
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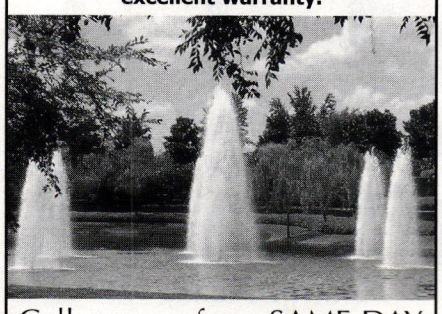

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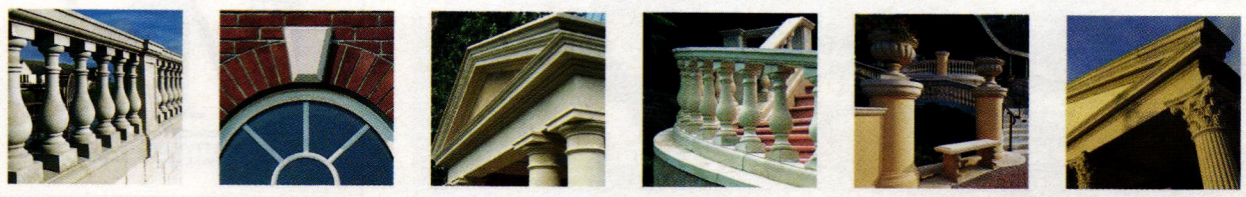

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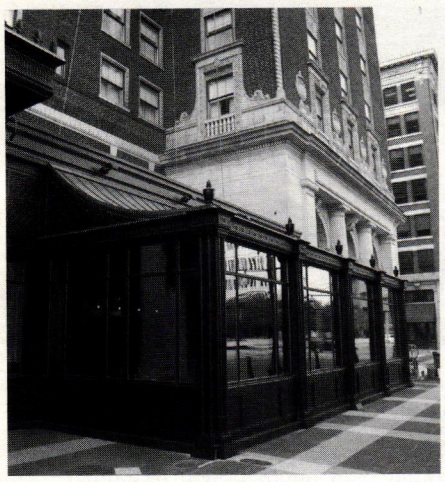
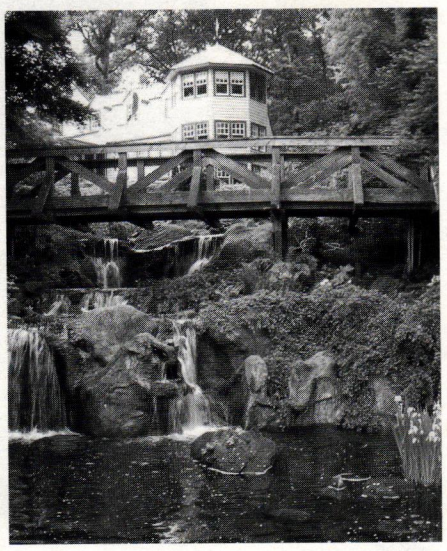


Wagner Foundry cast this aluminum storefront for the Amway Grand Plaza Hotel in Grand Rapids, MI, incorporating hand sculpted columns, fascia panels, finials and grilles.



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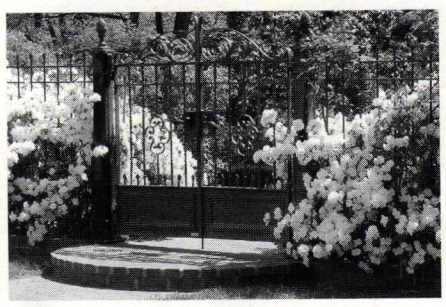

This gate was fabricated in wrought iron by Wiemann Ironworks.

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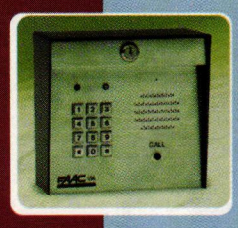

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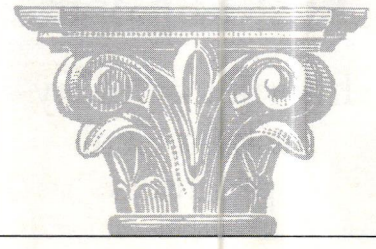

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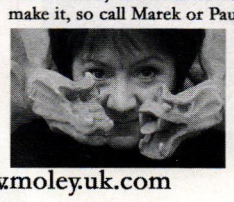

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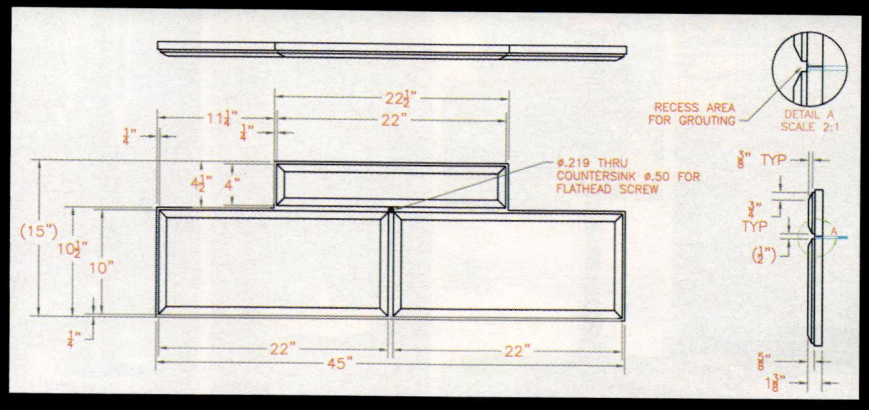

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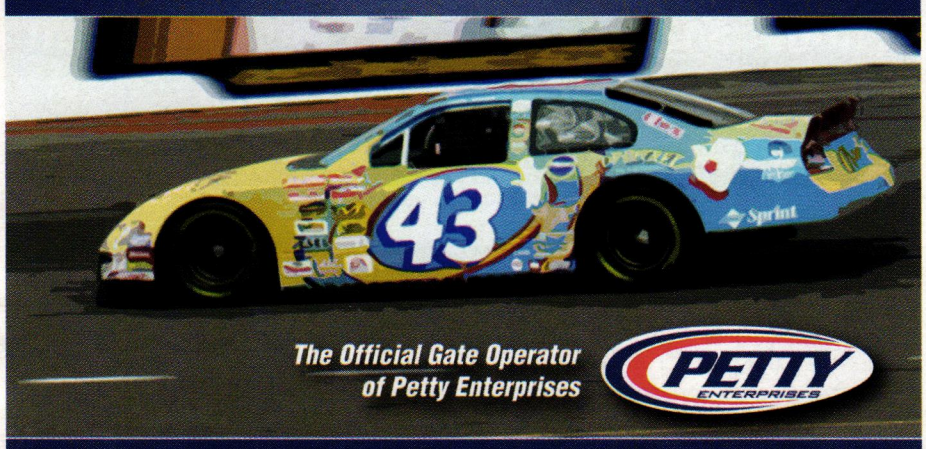

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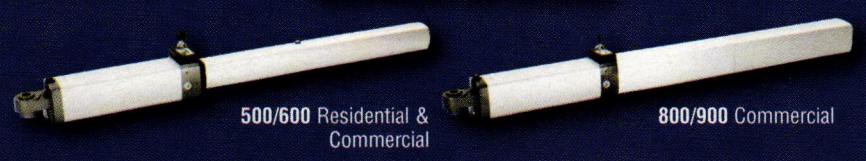

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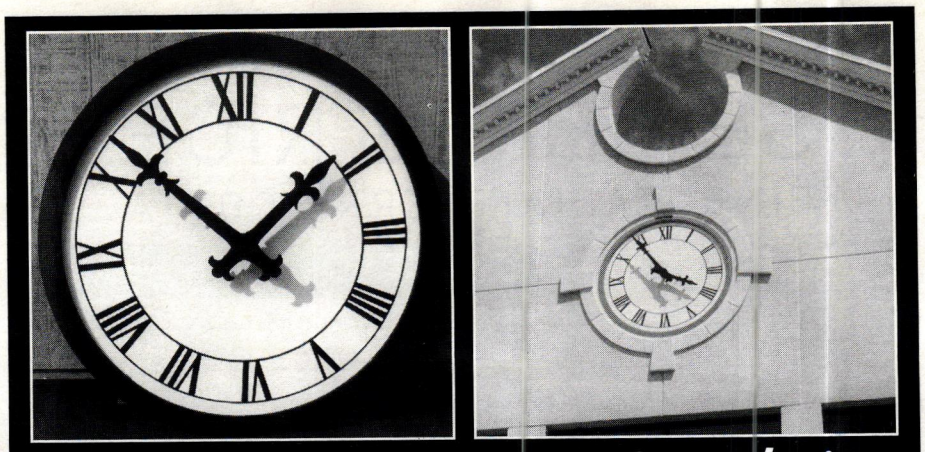

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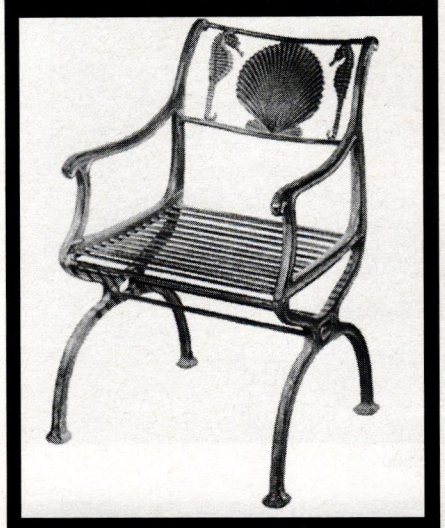

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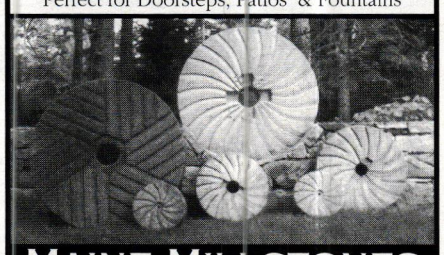

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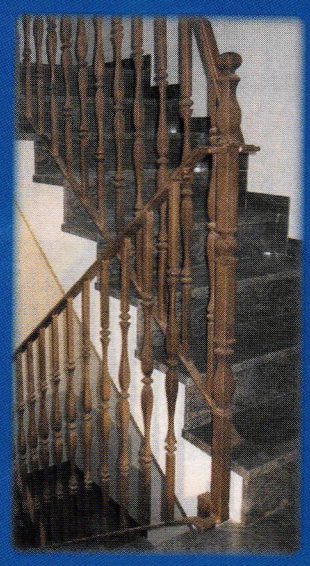

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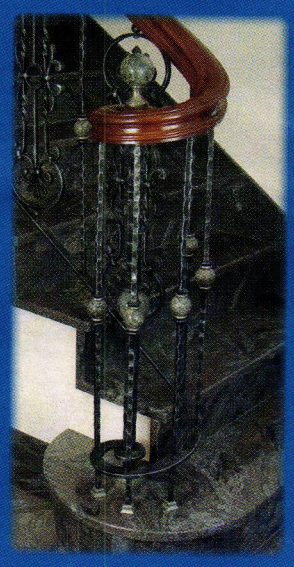

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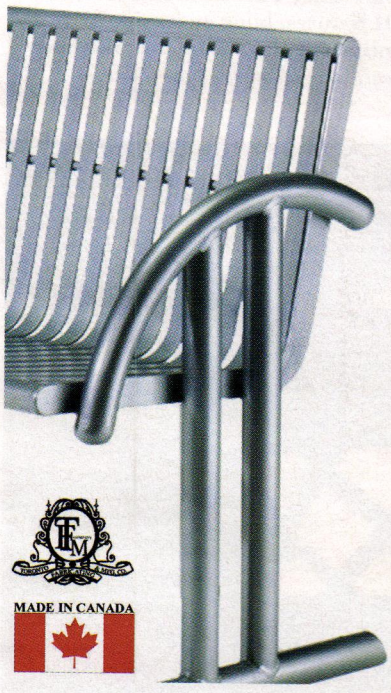

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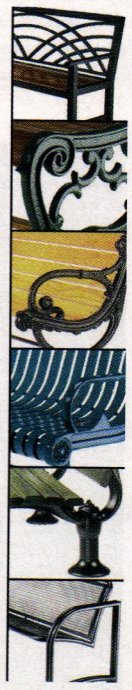

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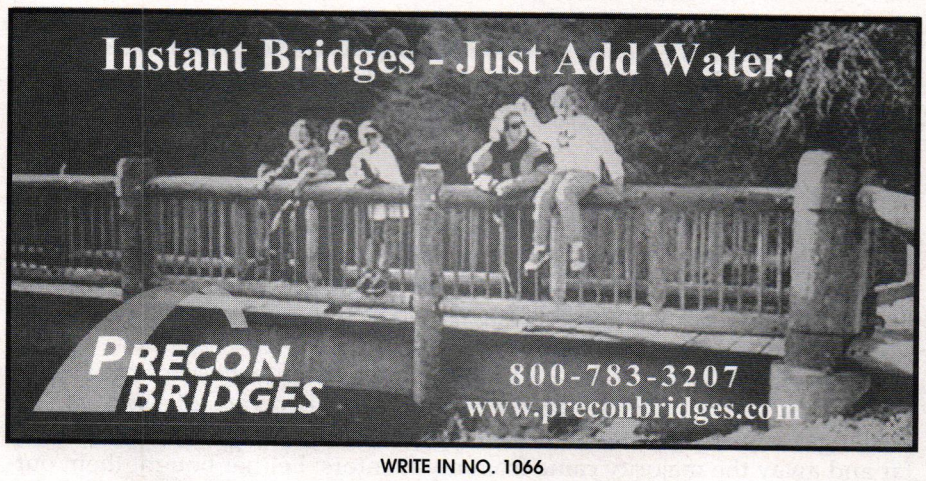

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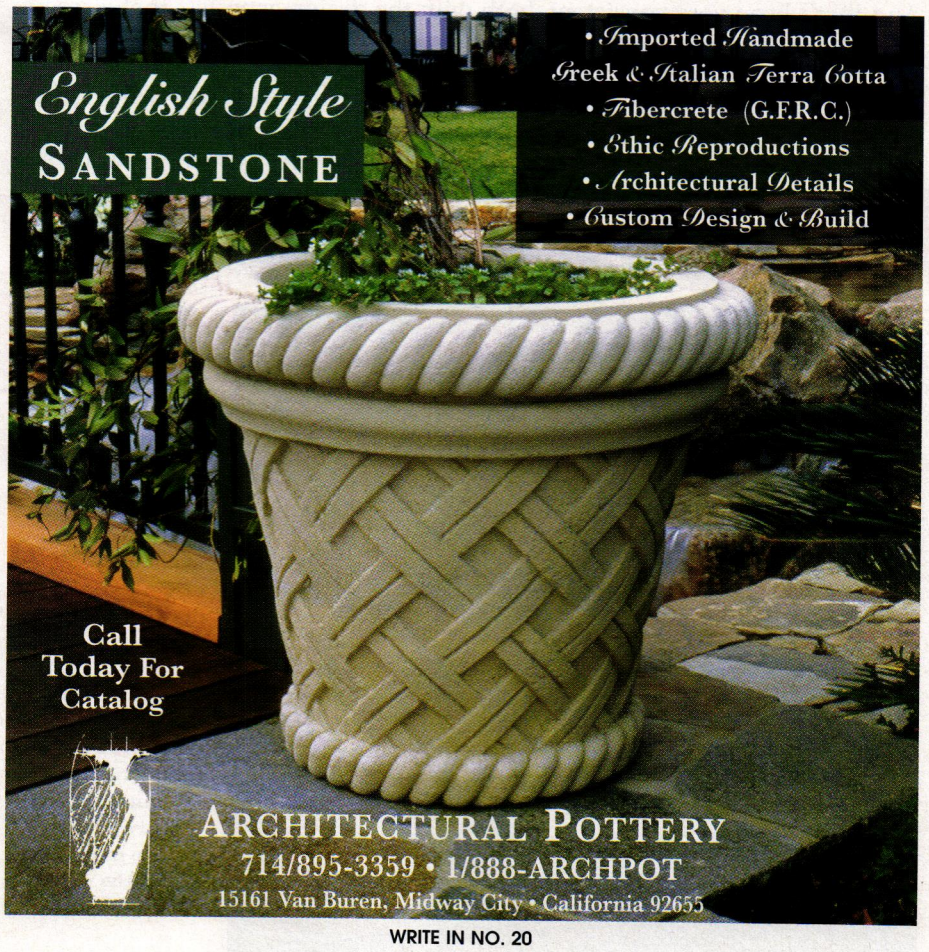


WRITE IN NO. 20

AHEAD OF THE CURVE

A Brooklyn-based glass studio produces traditional bent glass for both restoration projects and new light fixtures.

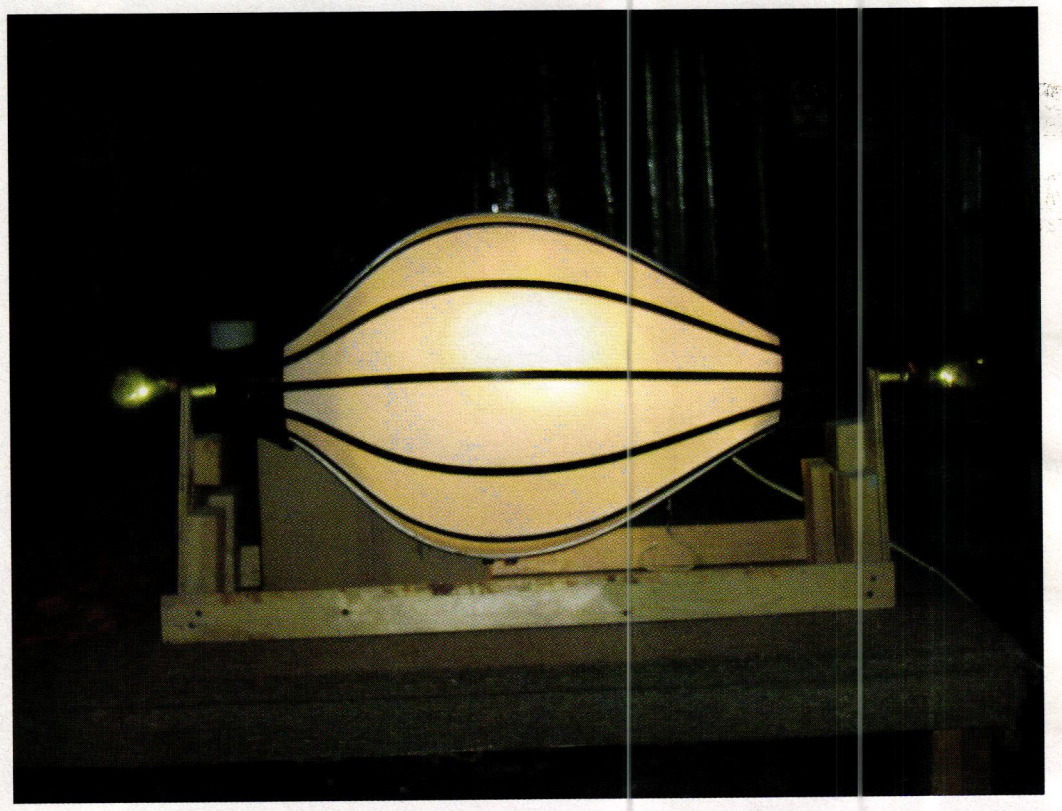
By Nicole V. Gagné

Working with the medium of glass has been a guiding passion throughout Charles Flickinger's career. At first, his attraction to this indispensable material led him to the field of stained glass, and during his early years in New York City Flickinger worked as a stained-glass craftsman, restorer and designer for various glass studios, including the prestigious Rambusch Decorating Company. It was while working at Rambusch during the mid 1980s that he had his first serious involvement with bent glass. The project was no less a feat than the restoration of the torch held aloft by the Statue of Liberty. "We spent three to four months out there," Flickinger recalls, "taking the work boat out to Liberty Island and working on the bent-glass sections that were in the original flame. It was a very satisfying job."

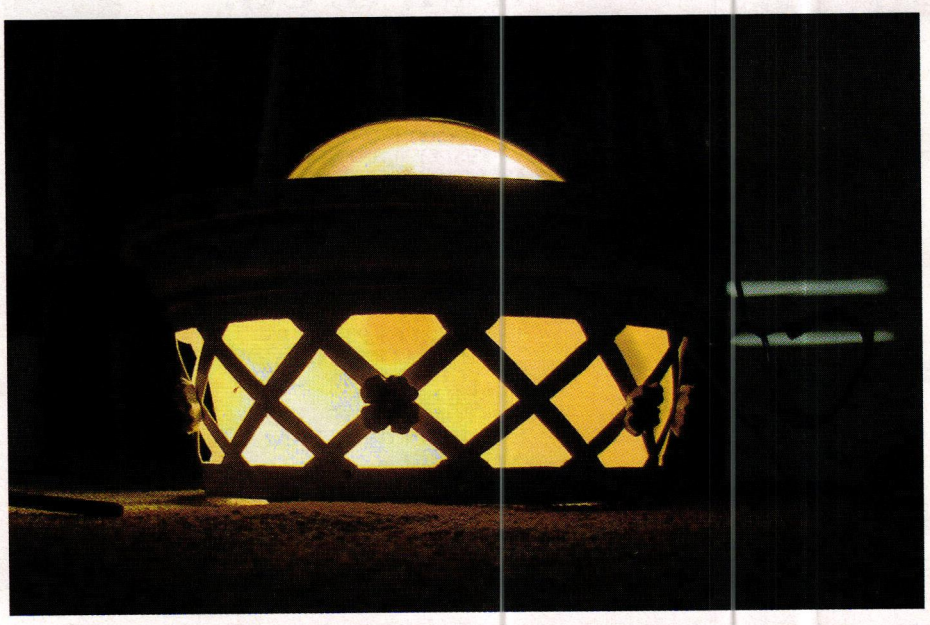
The satisfaction of that job also marked a bend in the road of his professional life, leading him to the art of bent glass. Beyond the techniques and beauties of the medium itself, Flickinger was attracted to the greater independence offered by this less-practiced discipline: "I wanted to work for myself. I didn't want to compete against quite a number of stained-glass firms that were in Manhattan, but I still wanted to pursue some kind of specialty-glass work. So by happenstance and other ways, I met four old-timers who taught me the trade, and I spent many years working for them and with them, learning how to do glass bending. They're my Glass Benders Hall of Fame [a feature of the company's website: www.flickingerglassworks.com]." This apprenticeship with such expert bent-glass craftsmen as Sydney Cash, Hans Deutsch, Maurice Heaton, and John P. Morgan led to the inception of Flickinger Glassworks in 1985. However, the demand for the firm's unique product soon outstripped its modest loft facility in Williamsburg, Brooklyn, and in 1990 an expanded Flickinger Glassworks relocated to its current home, a 7,000-sq.ft. shop in Brooklyn's Red Hook neighborhood, overlooking New York Harbor.

The only all-around glass-bending facility in greater New York, Flickinger Glassworks is today internationally recognized as a leader in the design, creation and restoration of bent glass. The firm specializes in a variety of applications, from architectural curved glass to bent glass for the display cases of museums, libraries and retail stores; providing bent glass for lighting fixtures, however, has become one of Flickinger's most valued services. Considering the likelihood of damage to this fragile material over the decades, the restoration and replication of antique bent glass has been a constant for Flickinger Glassworks. But the growing enthusiasm for new lighting fixtures in traditional designs has also generated a market equaling that of restoration. Flickinger describes the demand as "definitely half and half. And that's been very consistent, both with the design aspects – that is, recreating the stencils or the silk screens, enamels and paints – as well as the balance between lighting restoration and new lighting."

Although the balance in the type of light-fixture projects has been consistent, their number has steadily grown. "Business has definitely increased," Flickinger says, "and I think that's just a function of more people finding out about us over time. In the past two weeks we've started dealing with some lighting for a client in California – custom and restoration – who just learned about us. This is our twentieth year, and they're just finding out about us! Also, as far as new custom work is concerned, I think that there are a fair number of new companies, new designers and architects who are doing lighting. They find out about us, either through word of mouth or by our advertising. And many times, it's been students from a design school like Parsons or Pratt who come through and tour our shop; when they're out practicing, they remember us."



The fine dining enjoyed by guests at the Greenbrier Hotel in White Sulphur Springs, WV, is illuminated by the dining room's handsome lighting fixtures, which were recently restored by Flickinger Glassworks. Built in 1913, the Greenbrier had its interior radically redesigned in the late 1940s by Dorothy Draper (and further refined by Carleton Varney after he took over her firm in the 1960s). Seen here is one of those post-World War II fixtures, lying on its side in Flickinger's shop; measuring approximately 4 ft. tall, its elegantly bent glass is divided into long and narrow longitudinal sections by lead channels. *All Photos: courtesy of Flickinger Glassworks*



Dating from the 1930s, this flush-mount ceiling fixture is adorned with floral detailing that tends to attract one's attention; but the lighting's functionality is dependent upon the glass within it. Flickinger Glassworks recreated the conical glass of its interior, which subtly tapers from a wide top to a narrower base, for Victor Carl Antiques of New York City.

Charles Flickinger describes the restoration of this cast-glass fixture: "They were restoring the lobby of a co-op building in New York City, which still had its original Art Deco decor: the woodwork, the doors, the desks. They also had several of these lighting fixtures, and we totally redid one of them after making a two-part bronze mold from one of the existing fixtures."

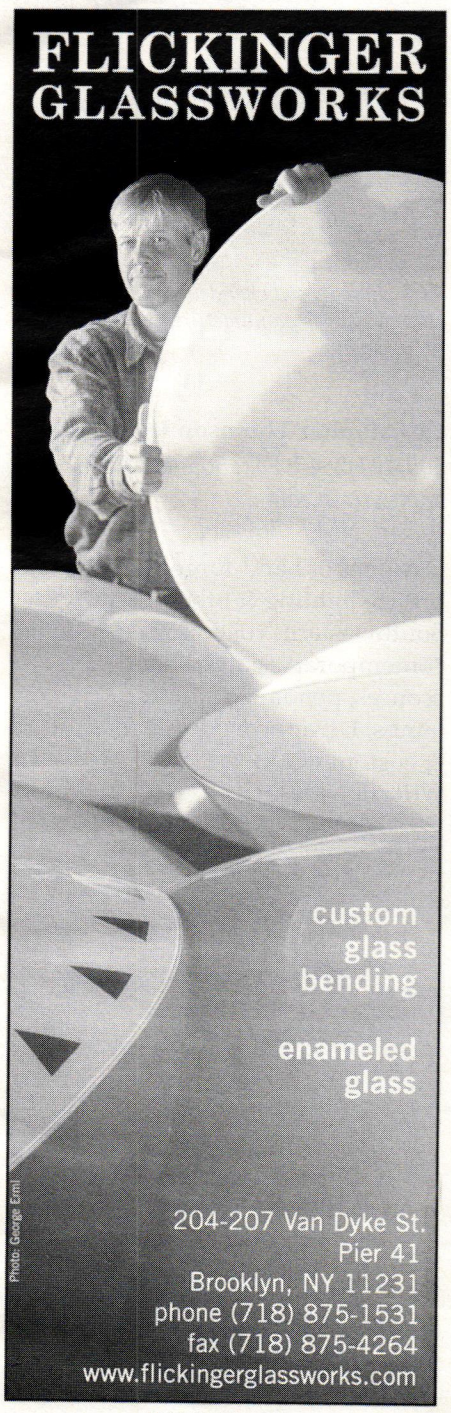
Keeping Flickinger Glassworks at the forefront of bent-glass production is the firm's extensive collection of molds for bending glass, of which Flickinger is justly proud. "We have 6,000 steel molds here," he says,"and far and away the majority came from my mentors: I either bought them outright or I inherited them. We have so many, and we're also constantly making new ones. And even more often, we're reshaping the old ones. We have some molds for bowls that are from the 1830s and 1840s. And we still use them – in fact, projects like that make up a lot of what we do."

Unusual challenges are frequent in the replication of glasswork for vintage lighting, but Flickinger Glassworks inevitably meets them all. "I think that we do a very good job of matching the glass," Flickinger notes. "That

really isn't so difficult. What can be the most challenging aspect of restoring old lighting fixtures is matching the paint or stains or very fine filigree stencils. And we do the silk-screening, we do the etching, we do the enameling – all kinds of surface-design applications. Recently, we did the lighting restoration for a bank in California, where the original fixture was 100 years old. It had some very fine filigree work that had to be re-created, and some very difficult bending and blowing work that had to be done. It was one of our most challenging jobs, and in the end, one of the most satisfying."

For a little more than two decades, Charles Flickinger has provided quality bent glass for projects both monumental and intimate. From the torch of the Statue of Liberty to the subtle detailing of a bank's interior lighting fixture, he has mastered this demanding art form in a wide variety of applications. Through a combination of the traditional techniques of slumping sheet glass into steel molds and the latest infrared technology for custom kilns, Flickinger Glassworks has been able to produce extraordinary bent glass of every shape, color, and texture, mirroring the past while meeting the demands of contemporary usage. ◆

Thousands of steel molds, both antique and new, are kept on hand at Flickinger Glassworks. Rose Battah, one of the firm's expert glass benders, is shown here holding the mold used to cast the deep-amber bowls before her. These glass half-spheres were subsequently installed on the ceiling fixtures of the Legislative Services Building in the New Jersey State House.



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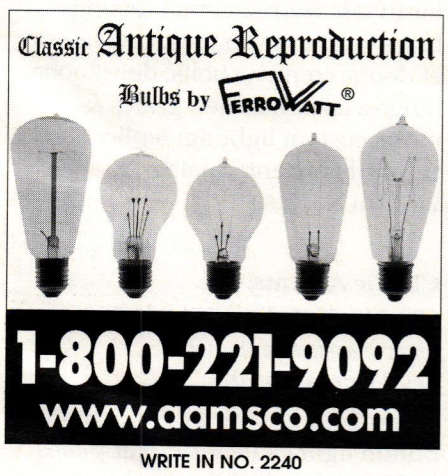

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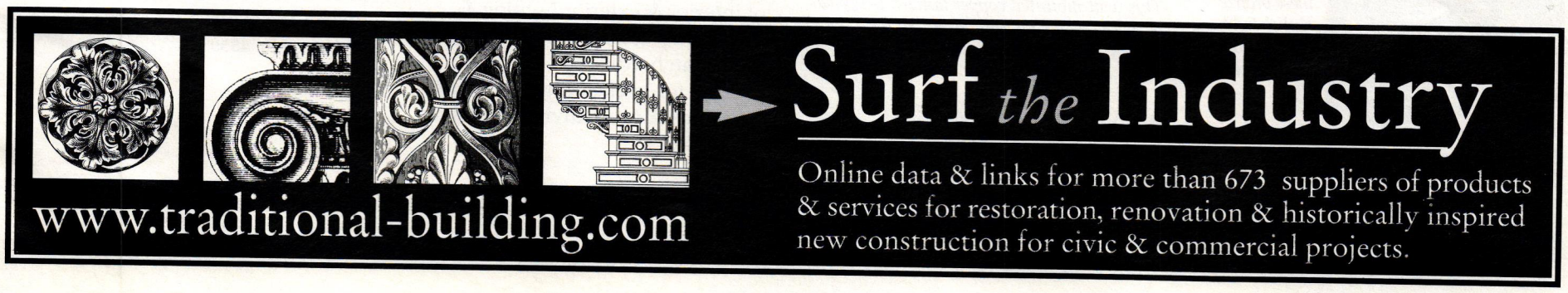

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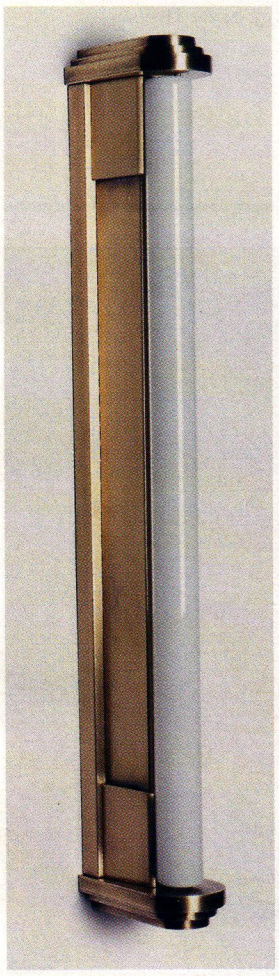

This solid-brass incandescent light fixture, model # 526 from Aamsco, has an antique-brass finish.

AAMSCO Lighting, Inc.
843-278-0000; Fax: 843-278-0001
www.aamsco.com
Summerville, SC 29483

Manufacturer of Ferrowatt-brand Edison-reproduction light bulbs: early carbon, 1910 Mazda tungsten & other models.
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800-204-3858; Fax: 256-761-1967
www.allenmetals.com
Talladega, AL 35161

Manufacturer of ornamental metal: street amenities, signage, lighting, columns, building components, cupolas, finials, cresting, architectural elements, canopies, newels, bollards, railings & grilles; variety of alloys & finishes.
Write in No. 1005

Allen Architectural Metals was commissioned by the City of Chicago to recreate a number of these bronze obelisk light fixtures from original castings.

Authentic Designs
800-844-9416; Fax: 802-394-2422
www.authenticdesigns.com
West Rupert, VT 05776

Manufacturer of historical lighting fixtures: chandeliers, lanterns, sconces & table lamps; brass, copper, terne & Vermont maple; Early American & Colonial; custom work; CUL/UL listed for wet & damp locations; library binder $15.
Write in No. 60

This chandelier is one of many custom-made fixtures from Authentic Designs.

Ball & Ball Lighting
610-363-7330; Fax: 610-363-7639
www.ballandball.com
Exton, PA 19341

Supplier of historical lighting: chandeliers, sconces, pendants, lanterns & table lamps; Early American & Turn-of-the-Century styles; antique & salvaged originals, new designs, custom work & reproductions; restoration services.
Write in No. 7660

This wall-mounted copper lantern is typical of those created by Ball & Ball, and can be mounted on a post or pillar.

Bevolo Gas & Electric Lights
504-522-9485; Fax: 504-522-5563
www.bevolo.com
New Orleans, LA 70130

Manufacturer & distributor of lighting fixtures: hand-riveted, antique copper, natural-gas, propane & electric; residential, commercial, landscapes & streetscapes; custom scaling & style proposals.
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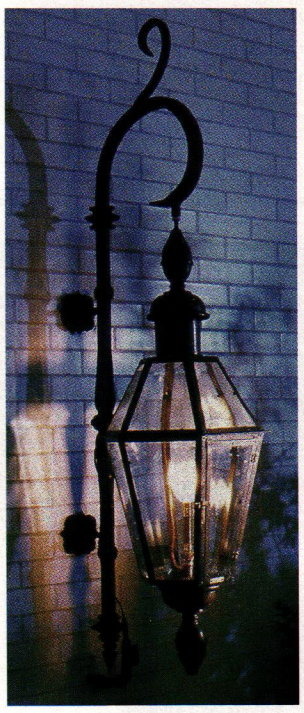

Bevolo manufactured this six-sided lantern.

Capitol Lighting Design And Restoration
616-844-5000; Fax: 616-897-8921
www.capitollighting.com
Ada, MI 49301

Custom designer of lighting & lighting equipment: chandeliers, sconces, pendants & lanterns; Early American, Victorian, Art Nouveau & other period styles; antique, new designs, reproductions & custom lighting; restoration services.
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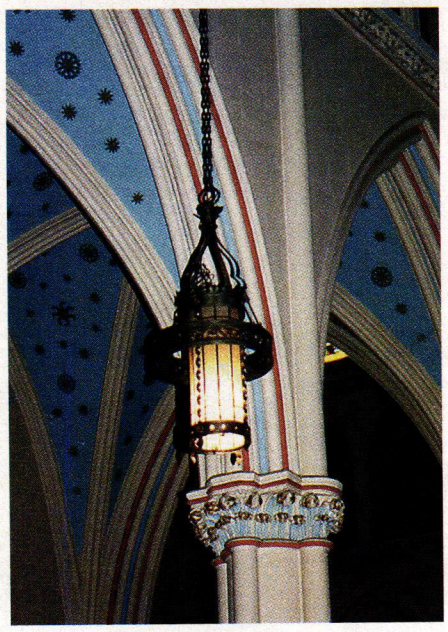

Capitol Lighting Design And Restoration maintained the integrity of the original light fixtures at St. Ann's Catholic Church in Detroit, MI, while integrating current light-source technology.

Cherry Tree Design
800-634-3268; No fax
www.cherrytreedesign.com
Bozeman, MT 59718

Manufacturer & custom fabricator of interior & exterior lighting & more: Shoji screens made of solid American hardwoods & durable facings; for pocket doors, window coverings & room dividers; custom interior doors.

This cherry wood chandelier with iridescent glass was manufactured by Cherry Tree Design.

Christopher Thomson Ironworks
505-421-2645; Fax: 505-421-2618
www.ctiron.com
Ribera, NM 87560

Designer of hand-forged steel & bronze lighting & other items: Southwestern/rustic & transitional contemporary; gates, chandeliers, sconces, pendants, lanterns & table lamps; UL approved; new designs & custom work.
Write in No. 237

Christopher Thomson Ironworks created this rustic chandelier in hand-forged steel with hand-dipped candles.

Cirecast
415-822-3030; Fax: 415-822-3004
www.cirecast.com
San Francisco, CA 94124

Manufacturer of historical builders hardware & ornamental castings: brass hardware for shutters & pocket doors; cremone bolts, doorknobs, hinges, lever handles, grilles & more; custom lighting; replication & refurbishment; catalog $5.
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South El Monte, CA 91733

Manufacturer of specialty & custom lighting fixtures: interior church lighting; landscape lighting & step-lights; antique refurbishments; for commercial & institutional use.
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Lighting for the City Hall Annex project in Honolulu, HI, was refurbished by C.W. Cole; the renovations consist of 18- and 30-in. chandeliers and matching 18-in. surface-mounted ceiling fixtures.

Coppersmythe, Josiah R.
508-432-8590; Fax: 508-432-8587
www.jrcoppersmythe.com
Harwich, MA 02645

Supplier of Colonial-style lighting fixtures: sconces, chandeliers & hanging & wall-mount lanterns; copper, brass, wrought iron, pewter, tin & wood; finished to specifications; historical reproductions; handcrafted; catalog $3.
Call for more information.

This wall-mounted lantern, finished in copper verde, from Josiah R. Coppersmythe measures 10½ in. wide x 9½ in. deep x 22 in. tall.

Craftsmen Hardware Co.
660-376-2481; Fax: 660-376-4076
www.craftsmenhardware.com
Marceline, MO 64658

Supplier of Arts & Crafts-style hardware: door, window, cabinet & drapery hardware; hand-hammered copper.
Write in No. 6980

Craftsmen Hardware fabricated this five-lantern chandelier.

Crenshaw Lighting
540-745-3900; Fax: 540-745-3911
www.crenshawlighting.com
Floyd, VA 24091

Manufacturer of decorative lighting fixtures: period & custom designs; historical restoration & reproduction; lighting for worship.
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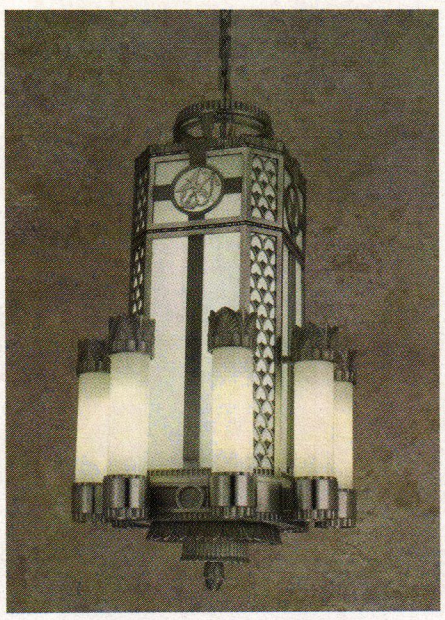

Crenshaw restored and replicated Art Deco fixtures for the Department of the Interior; they are made of cast- and machined-aluminum components with white glass lenses.

Crown City Hardware Co.
626-794-1188; Fax: 626-794-2064
www.crowncityhardware.com
Pasadena, CA 91104

Supplier of hardware: casement fasteners & adjusters; sash locks, lifts, balances & weights; screen fasteners & hangers; glass knobs, bin pulls, switch plates & more; iron, brass, glass & crystal; Victorian & Arts & Crafts styles.
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Customlightstyles.com
707-547-9909; Fax: 707-538-5543
www.customlightstyles.com
Santa Rosa, CA 95409

Designer & fabricator of lanterns, sconces, chandeliers & landscape lighting: hand-forged iron, brass & copper; more than 90 painted finishes & 16 natural metal finishes; historic reproductions & custom designs.
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Dahlhaus Lighting, Inc.
718-218-6651; Fax: 718-218-6653
www.dahlhaus-lighting.com
Brooklyn, NY 11211

Manufacturer of street furnishings & lighting: benches, clocks, plaques, street lamps, lanterns, bollards, fountains, ornament & mailboxes in European styles; for residential, commercial & civic sites.
Write in No. 2767

Dalhaus Lighting specializes in the design and production of vintage European outdoor lighting and accessories.

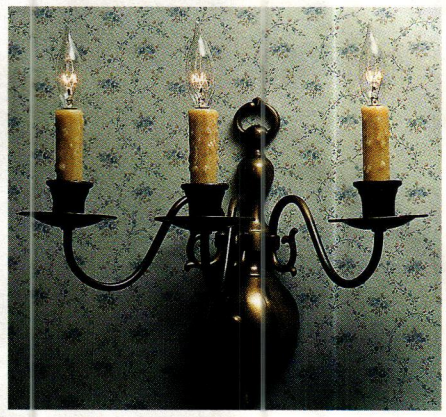
Deep Landing Workshop
877-778-4042; Fax: 410-778-4070
www.deeplandingworkshop.com
Chestertown, MD 21620

Manufacturer of custom lighting fixtures: chandeliers, sconces, pendants & lanterns; new designs, historic reproductions & custom work; handcrafted in wood, tin, brass or copper; glass, mica or alabaster shades.
Write in No. 809

This three-light traditionally styled lantern from Deep Landing Workshop is 32-in. tall x 12¾-in. wide and projects 20 in.

Derek Marshall Lighting
800-497-3891; Fax: 866-537-7338
www.derekmarshall.com
Sandwich, NH 03227

Manufacturer of lighting: Art Nouveau, Art Deco, Arts & Crafts, traditional, transitional & contemporary; sculptural sconces, table lamps & pendants; new designs & custom lighting & finishes.



Elcanco offers a selection of custom sconces, including this three-light model, the Moorlite, which uses 25-watt electric candles.

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www.elcanco.com
Pepperell, MA 01463

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www.europeanironworks-sb.com
Goleta, CA 93117

Designer & fabricator of hand-forged & traditionally joined architectural products: railings, balconies, gates, wine cellar & entry doors, fireplace screens, lighting & furniture; iron, bronze, copper, aluminum & other materials.
Write in No. 3031

Federalist, The
203-625-4727; Fax: 203-629-8775
www.thefederalistonline.com
Greenwich, CT 06830

Manufacturer & supplier of Early American lighting fixtures: chandeliers, sconces, lanterns, bell-jar fixtures, table & floor lamps; exterior lanterns; antique, historic reproductions & custom lighting; electric & gas.

This wood-and-metal six-light Chinoserie-style pagoda chandelier was fabricated by The Federalist.

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Designer & custom fabricator of ornamental metalwork: traditional liturgical motifs; street furnishings, lighting & more; curved, straight & monumental stairs; registers & grilles; hand forged & wrought iron, bronze & aluminum.
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www.flickingerglassworks.com
Brooklyn, NY 11231
Fabricator of bent glass: for curved brownstone windows, cabinetry, lighting & more; reproductions, complex shapes & custom molds; lighting restoration.
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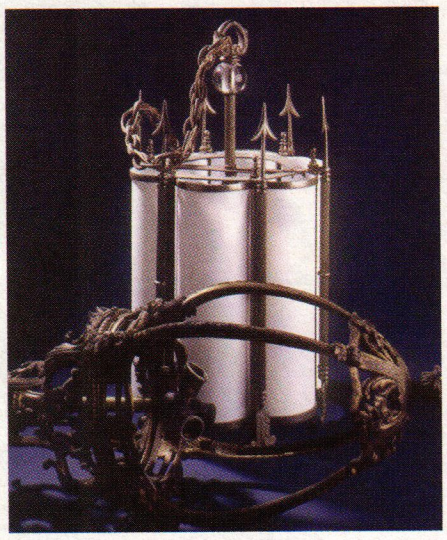

One of the specialties of Flickinger Glassworks is restoring historic lighting fixtures.

Guerin, P.E.
212-243-5270; Fax: 212-727-2290
www.peguerin.com
New York, NY 10014
Manufacturer of high-end hand-crafted brass & bronze hardware & accessories: for doors, windows, furniture, objets d'art & bathroom accessories; handcrafted sconces & residential lighting fixtures.
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Herwig Lighting
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www.herwig.com
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Designer & manufacturer of cast metalwork: pendant lanterns, street lighting, posts, bells, clocks, benches, bollards, custom plaques & signs, antique fence posts & more; aluminum & bronze; handcrafted.
Write in No. 9130

The artisans at Herwig hand-crafted this traditionally styled exterior lantern.

Historical Arts & Casting, Inc.
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www.historicalarts.com
West Jordan, UT 84088
Designer & custom fabricator of ornamental metalwork: doors, windows, hardware, stairs, balustrades, registers, fences, lighting, gutters, columns, weathervanes, planters & more; iron, bronze, aluminum & steel; restoration services.
Write in No. 1210

Historical Arts & Casting created this 16-ft. tall cast-bronze chandelier for the Wisconsin Electric Power Co., in Milwaukee, WI.

House of Antique Hardware
888-223-2545; Fax: 503-233-1312
www.houseofantiquehardware.com
Portland, OR 97214
Manufacturer & supplier of door & furniture hardware & accessories: rare & ornate hardware; 1860s-1930s styles; switch plates; grilles & registers; historical reproductions.
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Custom designer & manufacturer of wrought-iron elements: doors, gates, staircase railings, residential & commercial lighting & more; Mediterranean & Arts & Crafts styles.
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Custom fabricator of interior & exterior lighting: chandeliers, wall sconces, pendants & post & pilaster fixtures; traditional, French, Tudor, Tuscan, Asian, Provencal, Andalusian, contemporary & other styles; antique reproductions.
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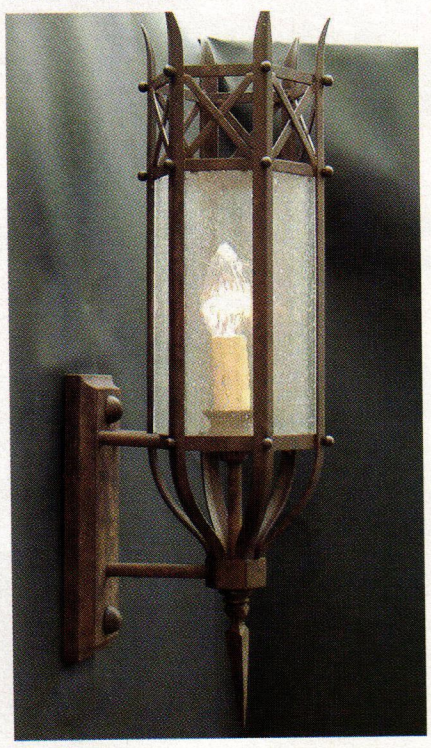

Lantern Masters custom designs and manufactures light fixtures for specific projects; one example is this large exterior sconce, the Empire Torch.

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510-465-7158; Fax: Same as phone
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www.lmaw.us
Southampton, NY 11968
Custom fabricator of gates, fences, doors, stair railings, balustrades, window grilles, & light fixtures; custom reproductions & restoration; bronze, iron, stainless steel & aluminum.
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Manufacturer of metal components: drawer pulls, window hardware, lamp finials, couplings, turned bar stock knobs, spacers, balls, check rings & furniture & display fittings; brass, aluminum & stainless steel; custom & stock.
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Maguire Iron hand-crafted this lantern in malleable iron with a classic dull-black finish.

Maguire Iron Corp.
510-234-7569; Fax: 510-232-7519
www.maguireironcorporation.com
Richmond, CA 94801
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www.pammorrisdesigns.com
Sausalito, CA 94965
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Write in No. 1402

This traditionally styled chandelier was fabricated by the artisans at Period Lighting Fixtures.

Period Lighting Fixtures, Inc.
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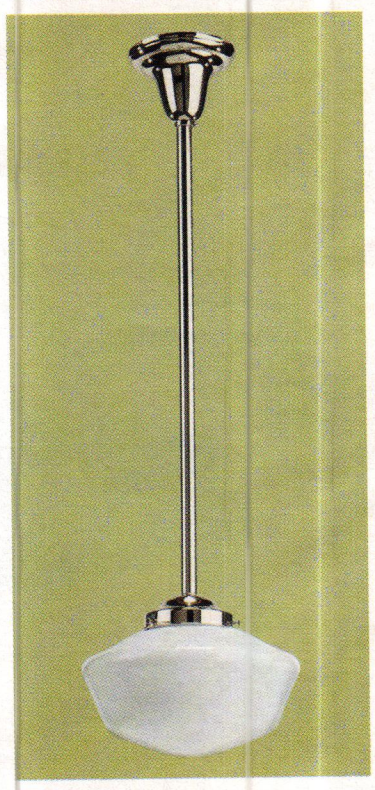

The model C750 from Rejuvenation, the Rhone, is offered in lengths ranging from 14 to 36 in. and is shown here with a polished nickel finish.

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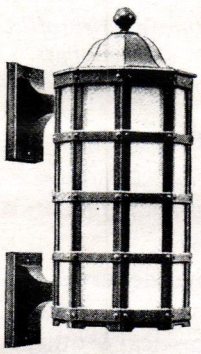

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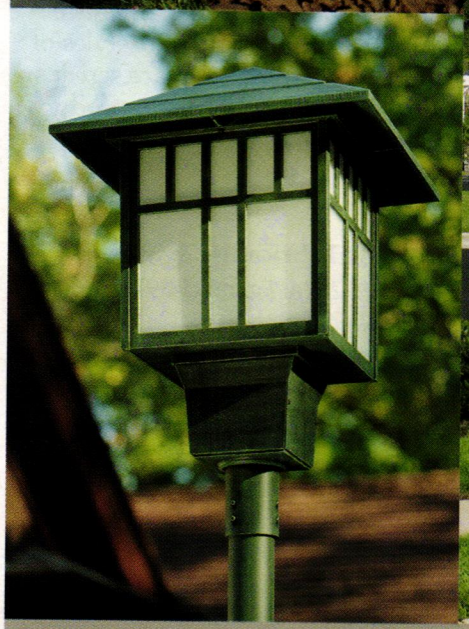

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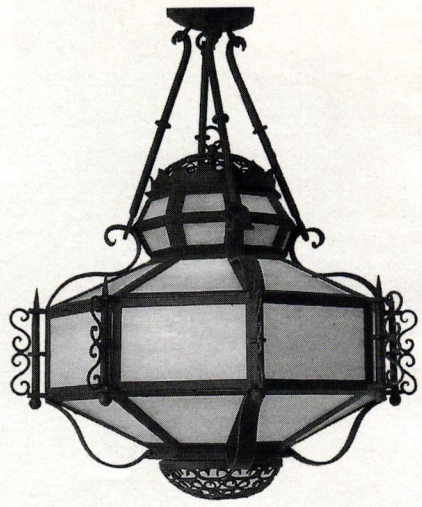

Steven Handelman offers many styles of chandeliers, including this Marakesh model.

Steven Handelman Studios
805-962-5119; Fax: 805-966-9529
www.stevenhandelmanstudios.com
Santa Barbara, CA 93103

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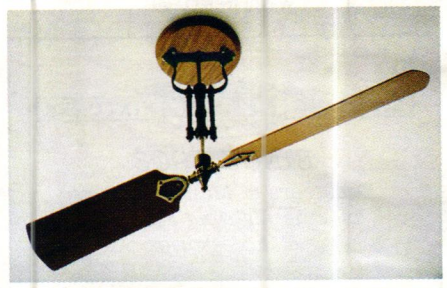

Woolen Mill manufactures a variety of decorative ceiling fans in traditional styles.

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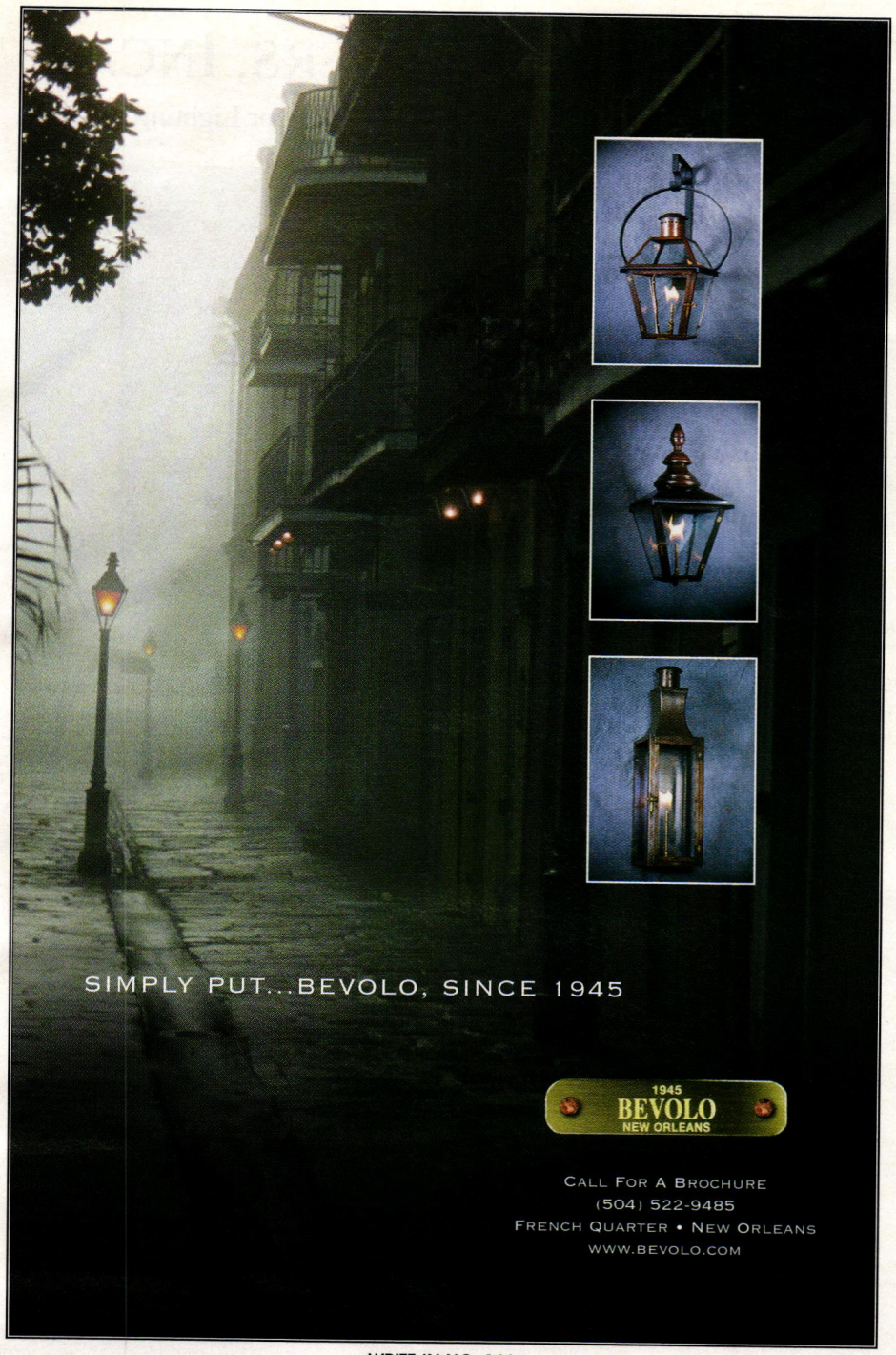

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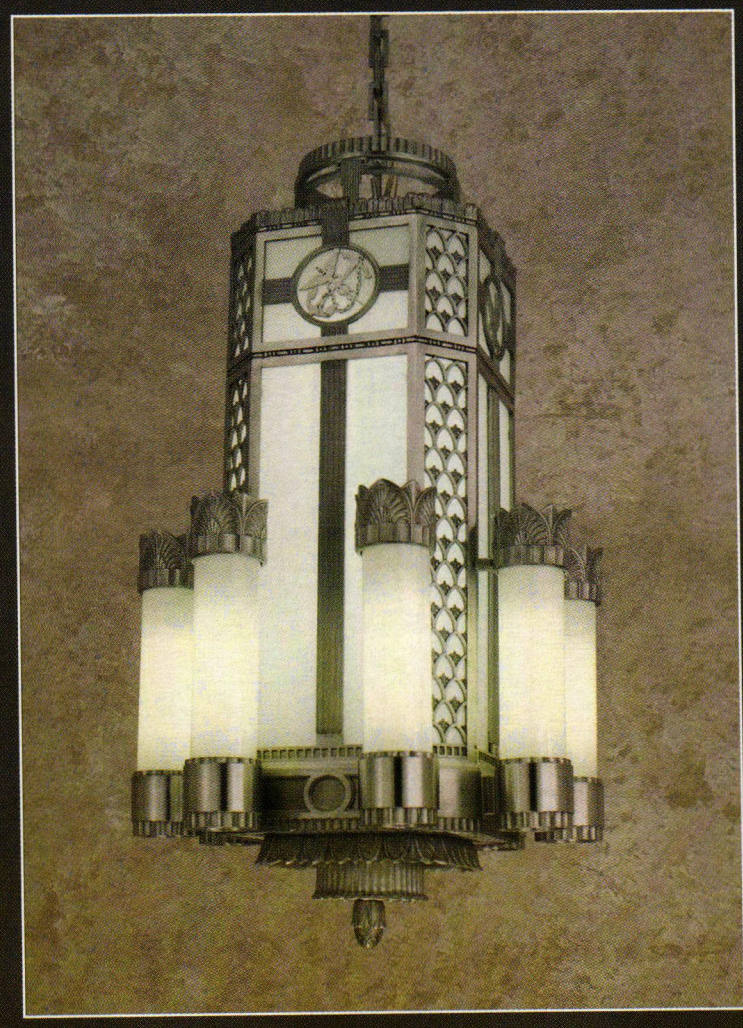

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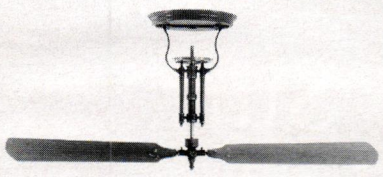

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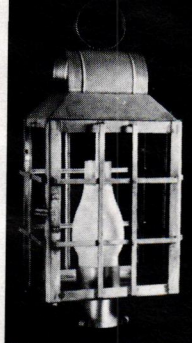

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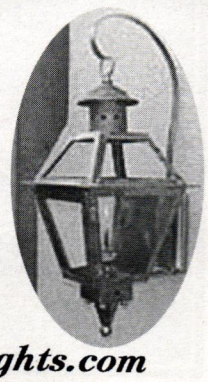

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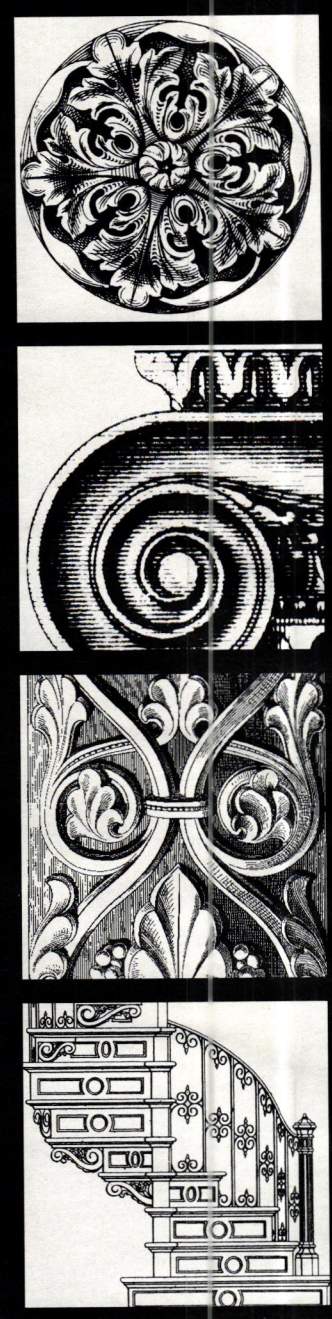

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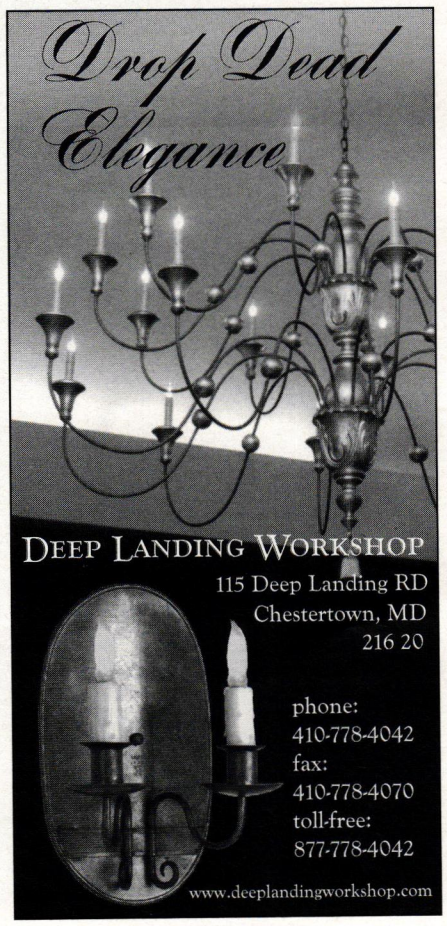

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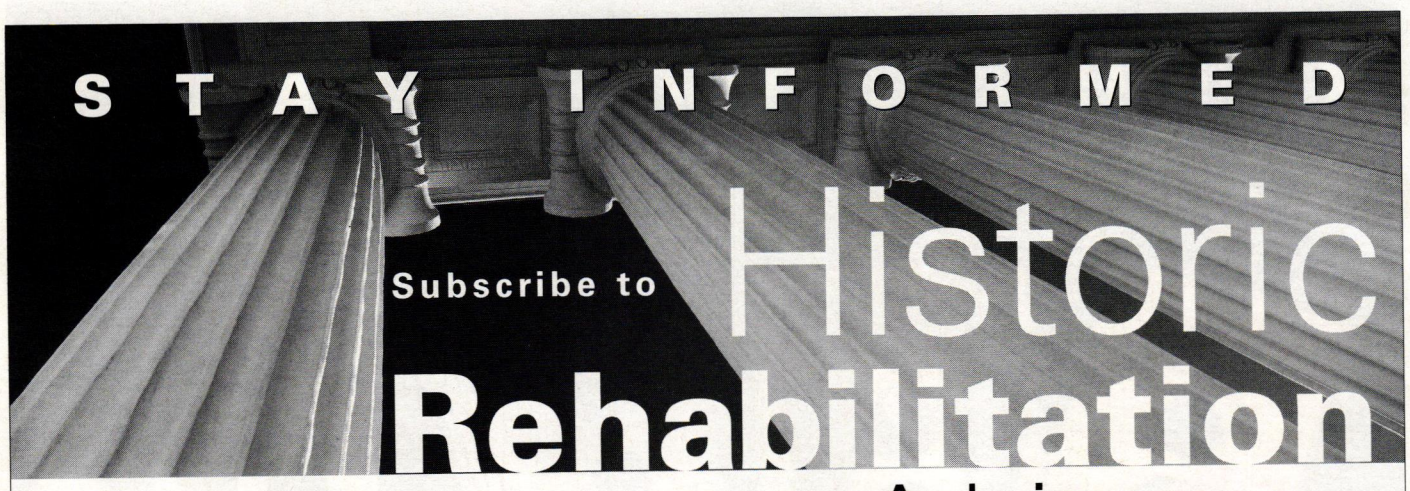

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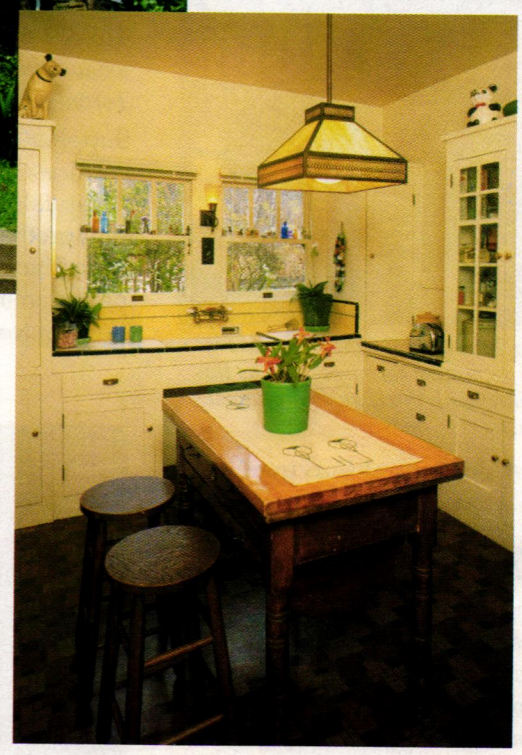

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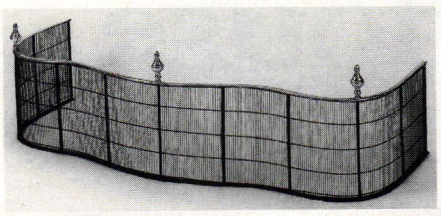

This wire fireplace fender, made to custom specifications by Ball & Ball, features a hand-forged upright frame bar.

This mantel was decorated with ornamental moldings provided by Balmer Architectural Mouldings.

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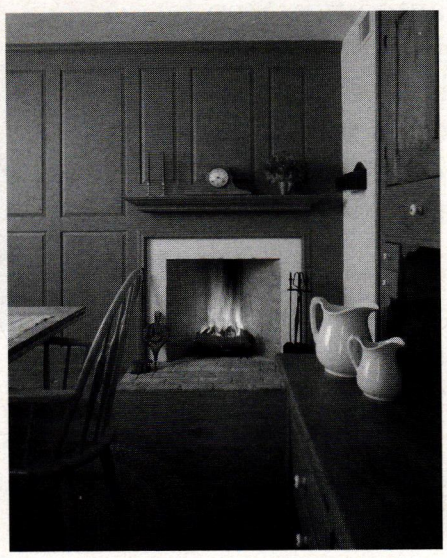

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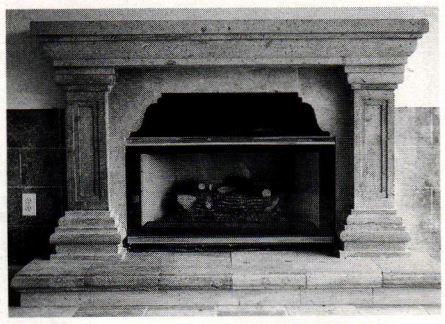

This stone mantel was manufactured by Cantera Especial.

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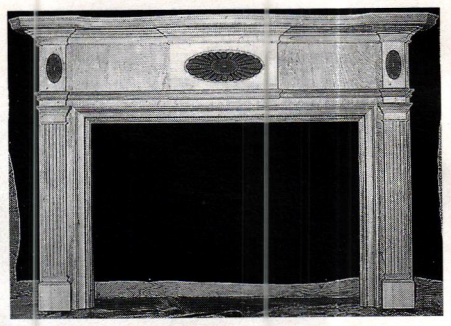
Designer of hand-forged steel & bronze lighting & other items: Southwestern/rustic & transitional contemporary; gates, chandeliers, sconces, pendants, lanterns & table lamps; fireplace tools; UL approved; new designs & custom work.
Write in No. 237

Cirecast
415-822-3030; Fax: 415-822-3004
www.cirecast.com
San Francisco, CA 94124
Manufacturer of historical builders hardware & ornamental castings: brass hardware for shutters & pocket doors; cremone bolts, doorknobs, hinges, lever handles, grilles & more; custom lighting; replication & refurbishment; mantels; catalog $5.
Write in No. 2280

Condar Co.
828-894-8383; No fax
www.condar.com/embergard.html
Columbus, NC 28722
Manufacturer of fireplaces: interior & exterior applications; accessories.
Write in No. 1820

Copper-Inc.com
888-499-1962; Fax: 888-499-1963
www.copper-inc.com
Dickinson, TX 77539
Manufacturer & distributor of copper products: cupolas, finials, weathervanes, roof vents, conductor heads, chimney caps, chimney pots & more; large production facility.
Write in No. 1615



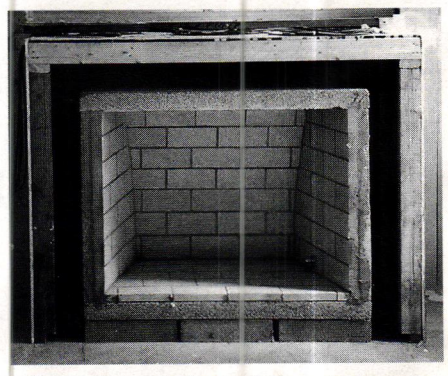
This custom-built Colonial-style mantel, item #15729 from Decorators Supply, can be manufactured in any size and wood species.

Decorators Supply Corp.
773-847-6300; Fax: 773-847-6357
www.decoratorssupply.com
Chicago, IL 60609
Supplier of period architectural elements: ceiling medallions, mantels, cornices, columns & capitals; plaster of Paris, compo & wood; 14,000 patterns available.
Write in No. 210

DMS Studios
718-937-5648; Fax: 718-937-2609
www.dms-studios.com
Long Island City, NY 11101
Custom fabricator of hand-carved stone elements: fountains, mantels, statuary, balustrades, capitals & landscape ornament; historically accurate.
Write in No. 9100

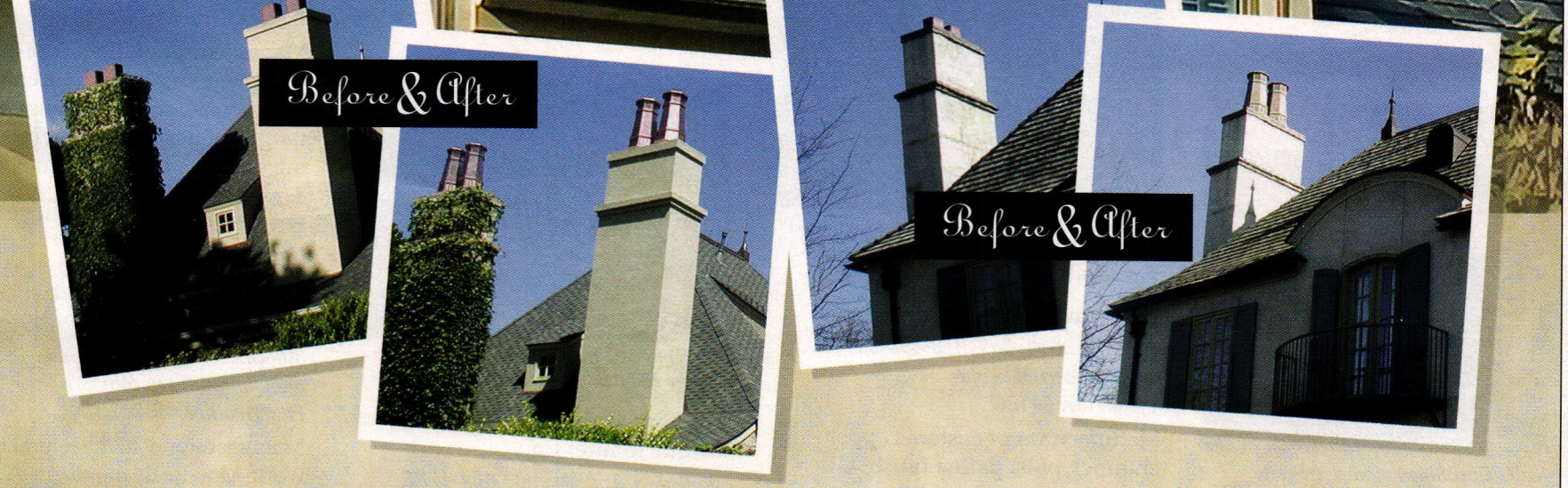
Hand-carved stone fireplace mantels and sculpture are available from DMS Studios. Photo: Justin Van Soest

Earthcore Industries/Isokern
800-642-2920; Fax: 904-363-3408
www.isokern.net
Jacksonville, FL 32256
Supplier of lightweight masonry fireplaces & chimneys made of Icelandic volcanic stone: custom designed & finished; interior & exterior; tested, listed UL-127, 103HT for wood or gas; flue sizes from 8 to 14 in.
Write in No. 808



This vent-free firebox unit from Earthcore/Isokern is made from volcanic pumice stone for reflective heat and structural integrity.

We make every flue fabulous.



Whether a home has one chimney or 100, each flue can have the same elegant appearance with a copper chimney pot by European Copper. Designed by Jack Arnold, AIA, our chimney pots are suitable for both masonry and pre-engineered fireplaces. Patented, UL Listed and tested to withstand high velocity winds, extreme heat and below-zero temperatures. A chimney pot by European Copper improves the draft, keeps out pests and water and is impervious to mold or mildew. Take the look of a chimney over the top and make every flue something fabulous.

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- *~ Withstands extreme winds, heat and cold*
- *~ Keeps out pests and water*
- *~ Improves draft*
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- *~ Five unique styles available*

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WRITE IN NO. 1719

European Iron Works
805-967-8076; Fax: Same as phone
www.europeanironworks-sb.com
Goleta, CA 93117
Designer & fabricator of hand-forged & traditionally joined architectural products: railings, balconies, gates, wine cellar & entry doors, fireplace screens, lighting & furniture; iron, bronze, copper, aluminum & other materials.
Write in No. 3031

Felber Ornamental Plastering Corp.
800-392-6896; Fax: 610-275-6636
www.felber.net
Norristown, PA 19404
Supplier of interior molded ornament: capitals, cornices, friezes, niches, keystones, rosettes, coffers, domes & medallions; custom mantels; plaster, gypsum & GRG; sculptors, modelmakers & casters on staff; stock & custom.
Write in No. 2890

Fischer & Jirouch Co.
216-361-3840; Fax: 216-361-0650
www.fischerandjirouch.com
Cleveland, OH 44103
Manufacturer of handcrafted plaster moldings: columns, capitals, ceiling medallions & fireplace mantels; interior & exterior ornament.
Write in No. 1960

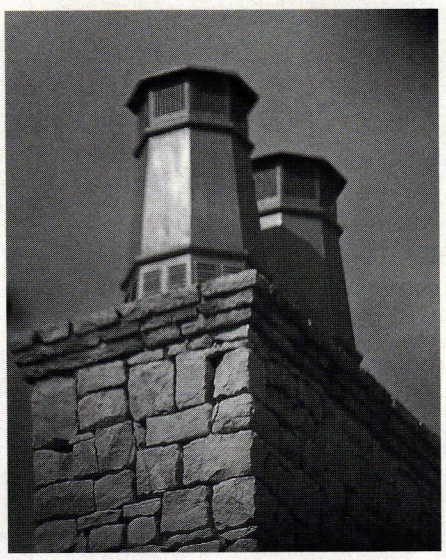
Forshaw's Corinthian mantel, from its estate series, is available in cherry, poplar, oak, maple and MDF.

Forshaw of St. Louis, Inc.
800-367-7429; Fax: 800-845-2689
www.forshawmantels.com
St. Louis, MO 63044
Manufacturer of handcrafted mantels & overmantels: pine, oak, poplar, cherry & other solid hardwoods; unfinished & ready for paint or stain; precast-stone mantels with 33-, 36-, 42- & 43-in. openings; custom & ground shipped.
Write in No. 8174

Foster Mantels
800-285-8551; Fax: 510-487-4239
www.mantels.net
Hayward, CA 94544
Manufacturer & supplier of mantels: carved corbels & architectural ornament; wood milled & wood carved; all popular woods, finished or unfinished; traditionally styled; stock & custom.

Gerald Siciliano Studio Design Associates
718-636-4561; Fax: 309-408-5403
www.geraldsicilianostudio.com
Brooklyn, NY 11215
Custom fabricator of fine & architectural sculpture: architectural details, fireplaces & mantels; bronze, granite, marble & stone; interior & exterior; repair & restoration; studio & fieldwork; 30 years of experience.
Write in No. 187

Haddonstone (USA), Ltd.
856-931-7011; Fax: 856-931-0040
www.haddonstone.com
Bellmawr, NJ 08031
Manufacturer of Classical stonework: columns, balustrades, benches, planters, urns, pavers, fountains, gazebos, mantels, statuary & more; cast, reconstructed limestone resembling Portland stone; more than 500 designs.
Write in No. 4020



Chimney pots with custom patinas are part of the line manufactured by Jack Arnold – European Copper.

Jack Arnold - European Copper
800-391-0014; Fax: 918-494-0884
www.jackarnold.com
Tulsa, OK 74136
Manufacturer of custom copper chimney pots: patina finish; UL listed & patented.
Write in No. 1719

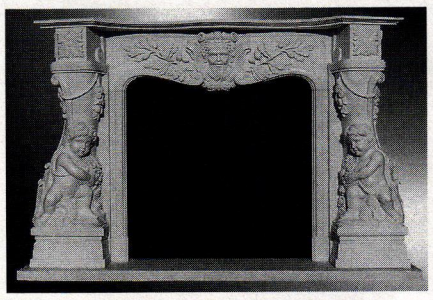
Kayne and Son Custom Hardware, Inc.
828-667-8868; Fax: 828-665-8303
www.customforgedhardware.com
Candler, NC 28715
Manufacturer of forged- & cast-metal hardware: strap, H, HL, butterfly & butt hinges; thumb-latch locksets, gate hardware, shutter dogs & more; fireplace tools; bathroom accessories & kitchen equipment; restoration services.
Call for more information.

New England Cast in Stone
802-885-7866; Fax: 802-885-7870
www.newenglandcastinstone.com
Springfield, VT 05156
Manufacturer of architectural precast elements: fountains, mantels, planters, statuary, garden ornament & more; restoration work; commercial & residential projects.
Write in No. 1792

No 9 Studio UK
011-44-1769-5404-71;
Fax: 011-44-1769-5408-64
www.no9uk.com
Umberleigh, Devon, UK EX379HF
Manufacturer of terra-cotta architectural elements: chimney pots, sculptural fountains & garden furnishings/ornament; ceramic tile & clay tile roofing; cupolas, finials & vents; special bricks & features; restoration services.
Write in No. 1672

Old Smithy Shop
603-672-4113; Fax: Same as phone
www.oldsmithyshop.com
Brookline, NH 03033
Custom fabricator of hand-forged Early American hardware: Suffolk & Norfolk latches & pulls; pintle strap hinges & H & H-L hinges & cabinet latches; window, gate & barn hardware.
Write in No. 5110

Sandkuhl Clay Works
419-657-2905; Fax: 419-657-2901
www.sandkuhl.com
Spencerville, OH 45887
Manufacturer of clay flue liners & other masonry chimney products: square & round flue liners, offsets, saddles & thimbles, firebrick, fire clay, refractory mortar, fresh-air inlet kits, handmade terra-cotta chimney tops.



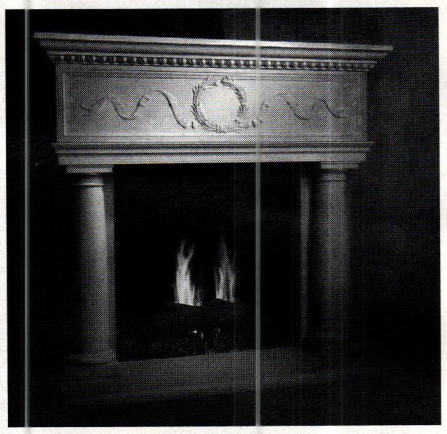
Mantel #A102 from Southern Group – Unique Mantel measures 49x70 in.

Southern Group Enterprise - Unique Mantel Co.
888-458-3716; Fax: 909-464-1787
www.uniquemantel.com
Pomona, CA 91766
Manufacturer & distributor of architectural fireplace mantels, statues & benches in natural marble: hand carved; distributors pay factory prices.
Write in No. 963

Steven Handelman Studios
805-962-5119; Fax: 805-966-9529
www.stevenhandelmanstudios.com
Santa Barbara, CA 93103
Manufacturer of hand-forged traditional lighting, grilles & fireplace accessories: many types & styles of lighting & grilles; fireplace screens, grates & inserts; historic reproduction & restoration services.
Write in No. 483

The Wood Factory
936-825-7233; Fax: 936-825-1791
111 Railroad St.
Navasota, TX 77868
Custom fabricator of millwork: monumental stairs, brackets, finials, spindles, gazebo parts, custom turnings & screen doors; all wood species; interior & exterior; matches custom parts & workings from renderings; reproductions.
Write in No. 7120

Vintage Woodworks
903-356-2158; Fax: 903-356-3023
www.vintagewoodworks.com
Quinlan, TX 75474
Manufacturer & supplier of Victorian millwork: wood porch parts, turned posts, turned & sawn balusters, railings, brackets, corbels, custom-length spandrels, columns, screen/storm doors, mantels & more; 192-p. catalog.
Write in No. 1061



Wassmer Studios' extensive line of interior elements includes ornamental mantels.

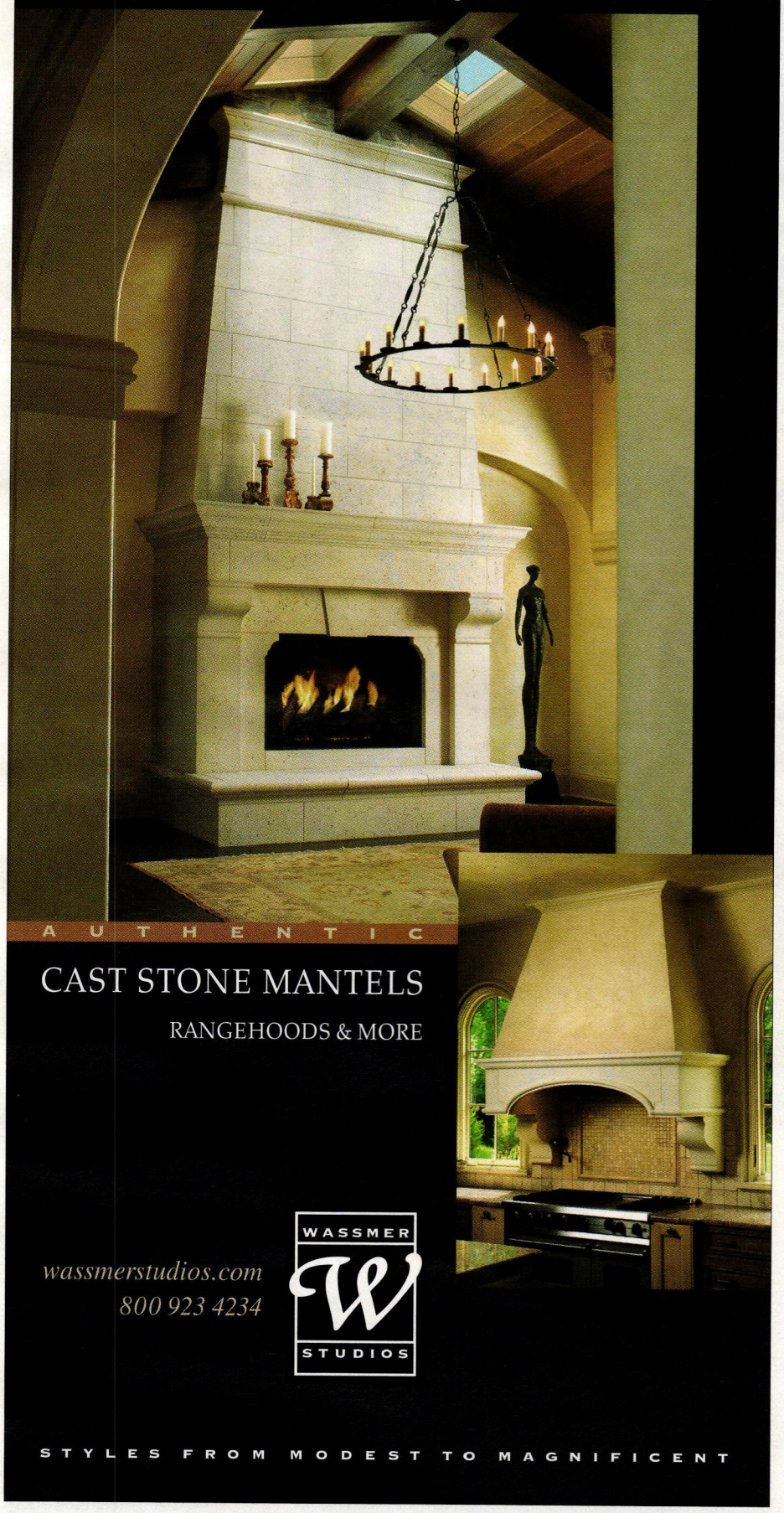
Wassmer Studios
800-923-4234; Fax: 816-283-0653
www.wassmerstudios.com
Kansas City, MO 64116
Manufacturer of interior & exterior ornament: cast-limestone columns, balustrades, cornices, mantels, range hoods; plaster brackets, ceiling domes, medallions, moldings & mantels.
Write in No. 1824

White River Hardwoods-Woodworks
800-558-0119; Fax: 479-444-0406
www.mouldings.com
Fayetteville, AR 72701
Manufacturer of architectural millwork: Mon Reale moldings, Authentic Hand-Carved linden products & adornments for cabinetry & furniture in cherry & maple; in stock lineals, finials, mantels & range hoods.
Write in No. 1099

White River Hardwoods-Woodworks stocks a wide range of full-surround mantels and mantle shelves.

Woodline Co.
562-436-3771; Fax: 562-436-8891
www.woodlineusa.com
Long Beach, CA 90813
Manufacturer of hand- & machine-carved architectural wood elements: corbels, capitals, columns, balusters, newel posts, rosettes & more; many species; custom designs also available.
Write in No. 5240

a creative place where things are well made



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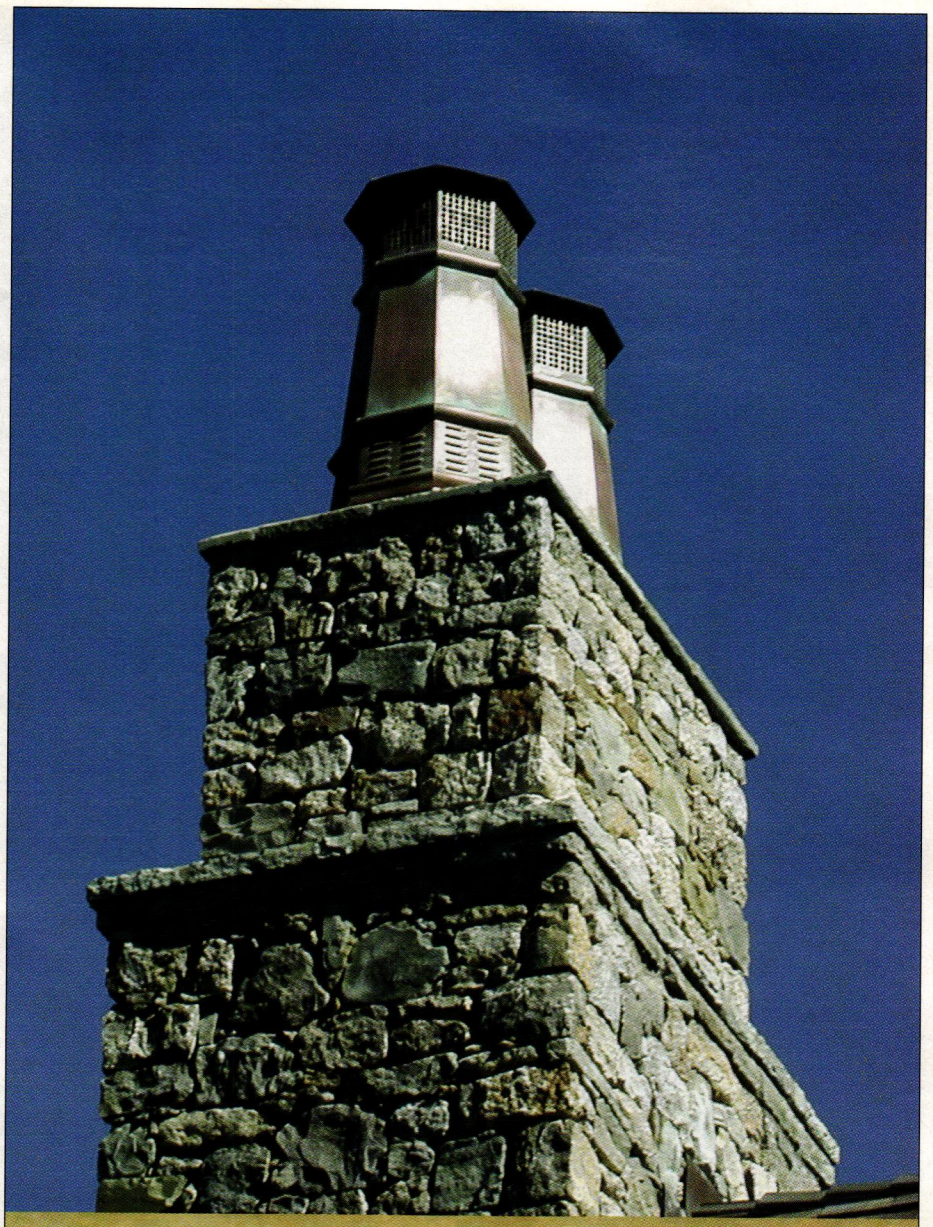

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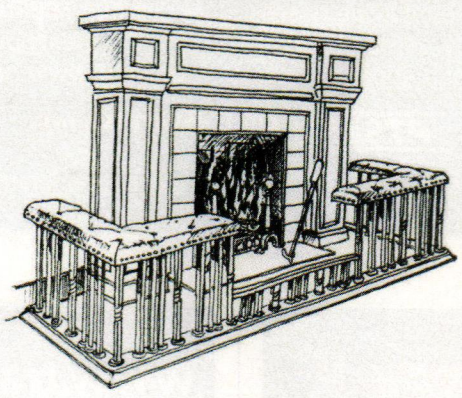

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WEB: www.FendersUSA.com

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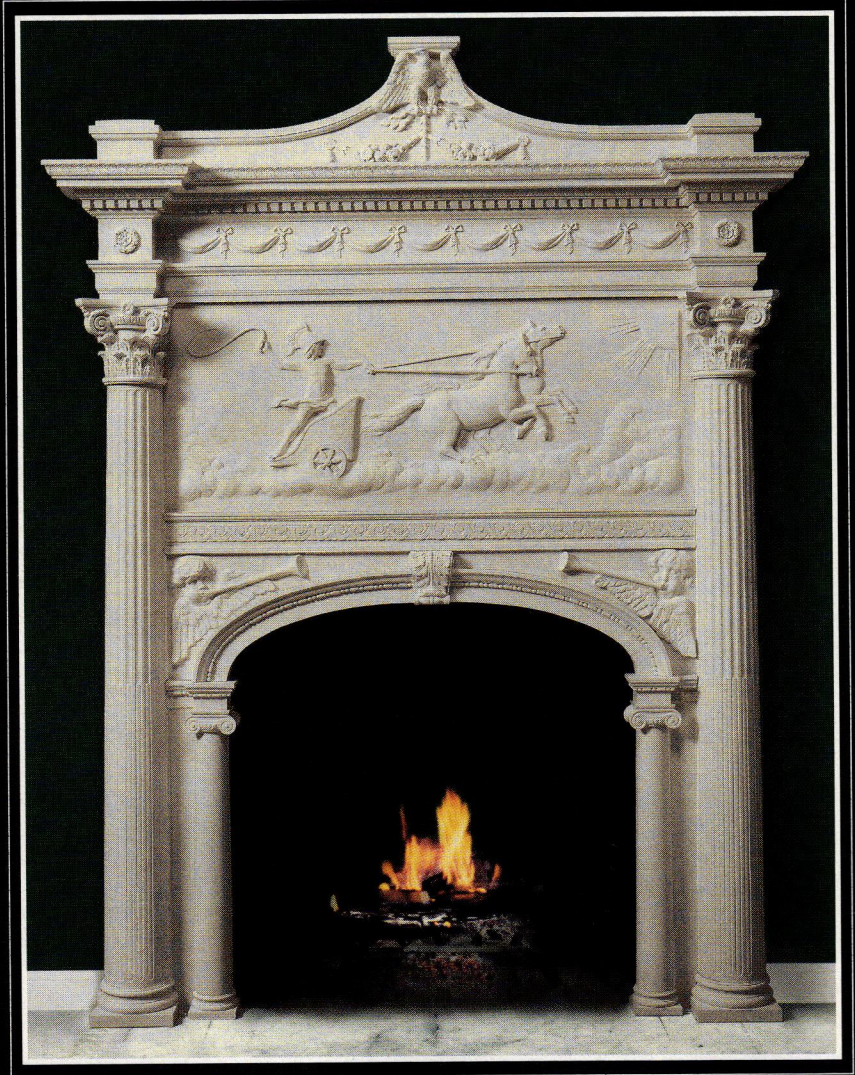

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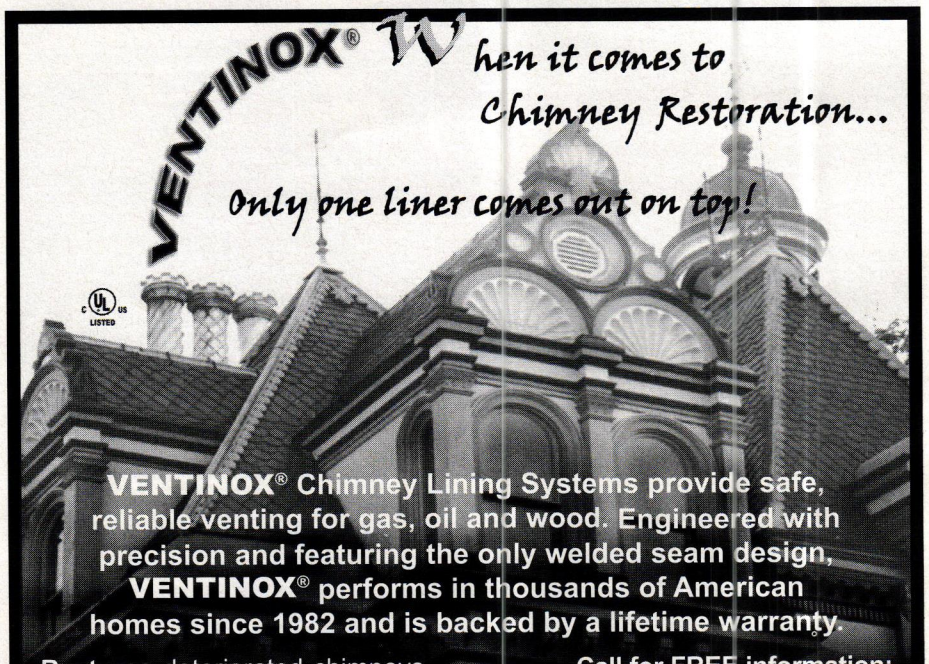

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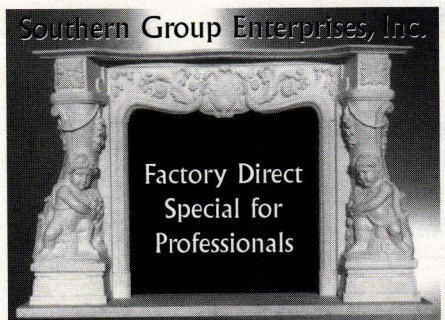
Southern Group Enterprises, Inc.



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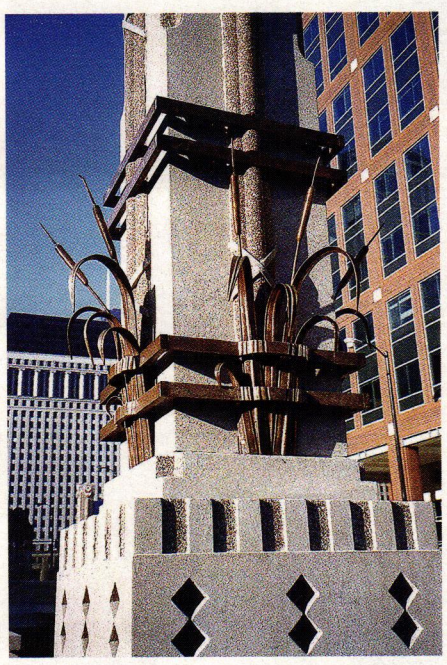
Acorn Forged Iron manufactures a variety of hardware, railings and decorative work.

Acorn Forged Iron
508-339-4500; Fax: 508-339-0104
www.acornmfg.com
Mansfield, MA 02048

Supplier of forged-iron & forged stainless-steel decorative hardware: cabinet, shutter, gate & interior & exterior door hardware; cast-iron registers & grilles; hand-forged bath accessories; hand-forged decorative-head nails.
Write in No. 1690



This bronze cattail ornament was fabricated by Allen Architectural Metals for the LaSalle Plaza in Chicago.

Allen Architectural Metals, Inc.
800-204-3858; Fax: 256-761-1967
www.allenmetals.com
Talladega, AL 35161

Manufacturer of ornamental metal: street amenities, signage, lighting, columns, building components, cupolas, finials, cresting, architectural elements, canopies, newels, bollards, railings & grilles; variety of alloys & finishes.
Write in No. 1005

Architectural Grille
800-387-6267; Fax: 718-832-1390
www.archgrille.com
Brooklyn, NY 11215

Manufacturer of custom grilles: perforated & linear bar grilles; aluminum, brass, steel & stainless steel; variety of finishes; stock sizes; water-jet & laser cutting.
Write in No. 2220

B&B Sheetmetal
718-433-2501; Fax: 718-433-2709
www.bbsheetmetal.com
Long Island City, NY 11101

Manufacturer of copper cornices, dormers, flashings, cupolas, gutters, downspouts, louvres, conducter heads & radius/tapered roof panels: water-jet custom cutting; the world's first 'How to Solder' DVD.
Write in No. 1679

Beaux-Artes manufactures this Arts and Crafts-style grille in bronze and pewter.

Beaux-Artes
410-867-0790; Fax: 410-867-8004
www.beaux-artes.com
Churchton, MD 20733

Manufacturer of decorative HVAC grilles: trim kits, medallions for recessed lights; for historic preservation & new construction.

Breuer Metal Craftsmen, Inc.
800-569-6812; Fax: 920-885-2831
www.breuermetal.com
Beaver Dam, WI 53916

Custom fabricator of metalwork: railings, stairs, steeples, crosses & more; bronze, brass, aluminum, stainless & wrought iron.
Write in No. 555

C&J Metal Products
800-500-8660; Fax: 562-634-8823
www.cjmetals.com
Long Beach, CA 90805

Manufacturer & supplier of architectural sheet-metal elements: roof dormer vents, finials, spires, dormers, canopies, leader heads & chimney tops; restoration & duplication.
Write in No. 596

Campbellsville Industries, Inc.
800-467-8135; Fax: 270-465-6839
www.cvilleindustries.com
Campbellsville, KY 42719

Manufacturer & installer of architectural metalwork: steeples, cupolas, clock towers, finials, weathervanes, dormers, cornices, crosses, columns, balustrades, picket & paneled railings; aluminum, copper, zinc & lead-coated copper.
Write in No. 2730

Christopher Thomson Ironworks custom designed this forged "Ripple Gate."

Christopher Thomson Ironworks
505-421-2645; Fax: 505-421-2618
www.ctiron.com
Ribera, NM 87560

Designer of hand-forged steel & bronze lighting & other items: Southwestern/rustic & transitional contemporary; gates, chandeliers, sconces, pendants, lanterns & table lamps; UL approved; new designs & custom work.
Write in No. 237

Cirecast restored these iron railings and other metalwork at San Francisco's City Hall.

Cirecast
415-822-3030; Fax: 415-822-3004
www.cirecast.com
San Francisco, CA 94124

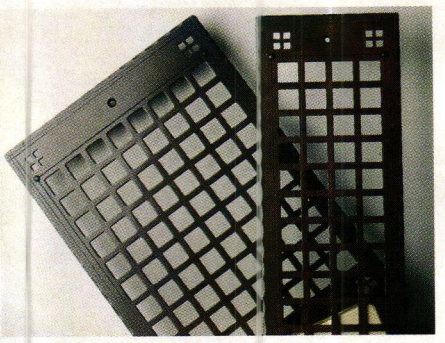
Manufacturer of historical builders hardware & ornamental castings: brass hardware for shutters & pocket doors; cremone bolts, doorknobs, hinges, lever handles, grilles & more; custom lighting; replication & refurbishment; catalog $5.
Write in No. 2280

Colorado Waterjet Co.
970-532-5404; Fax: 970-532-5405
www.coloradowaterjet.com
Berthoud, CO 80513

Custom fabricator of water-jet-cut ornamental metal products: panels for gates, railings, stairs, lighting, hardware, sculpture, signage, registers & grilles; steel, stainless steel, aluminum, bronze, brass, copper & more.
Write in No. 365

CopperCraft, Inc.
800-486-2723; Fax: 817-490-9661
www.coppercraft.com
Keller, TX 76248

Manufacturer of sheet-metal products: spires, finials, louvers, dormers, weathervanes, cupolas, conductor heads, cornices, cladding, chimney caps, canopies, bronze doors & more.
Write in No. 1490



These Arts and Crafts-style grilles are manufactured in hand-hammered copper by Craftsmen Hardware.

Craftsmen Hardware Co.
660-376-2481; Fax: 660-376-4076
www.craftsmenhardware.com
Marceline, MO 64658

Supplier of Arts & Crafts-style hardware: door, window, cabinet & drapery hardware; hand-hammered copper.
Write in No. 6980

D.J.A. Imports, Ltd.
718-324-6871; Fax: 718-324-0726
www.djaimports.com
Bronx, NY 10466

Distributor of architectural metal components: gates, railings, stairs, gate & door hardware, machinery for the metal industry & specialty items; stainless steel & aluminum; reproductions; riveted gates & railings, operators & more.
Write in No. 495

DeAngelis Iron Work, Inc.
888-676-4766; Fax: 508-238-7757
www.deangelisiron.com
South Easton, MA 02375

Custom fabricator & installer of ornamental metalwork: fences, gates, columns, capitals, benches & more; cast & wrought iron, bronze, brass, aluminum, stainless steel & more.
Write in No. 1023

DeAngelis Iron Work fabricated this ornamental metal gate with hand-forged scrolls for a project at Harvard Yard in Cambridge, MA.

Durable Slate Co., The
800-666-7445; Fax: 614-299-7100
www.durableslate.com
Columbus, OH 43201

Contractor providing historic restoration: slate, tile & metal roofing; exterior metal ornament; restoration of masonry, monuments, doors, windows, interiors, steeples, spires & cupolas; Midwest, East & South regions; since 1986.
Write in No. 3720

EJMcopper, Inc.
877-447-0074; Fax: 407-447-0075
www.ejmcopper.com
Orlando, FL 32826

Custom fabricator of copper products: cupolas, dormers, weathervanes, finials, vents, chimney caps & more.
Write in No. 1377

Specializing in the shaping of carbon, stainless, aluminum and other various alloys to exact specification:

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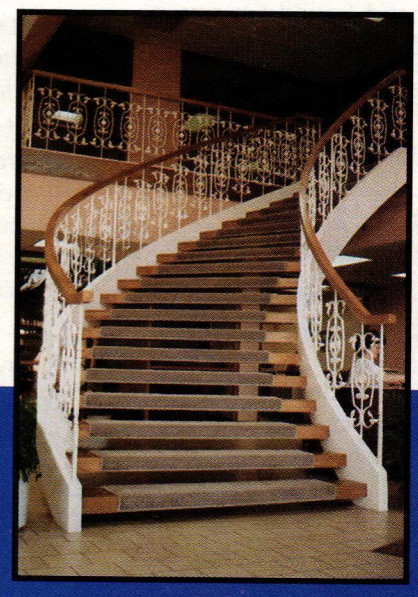

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(888-625-5392)

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fax 336-545-6363
e-mail: kennethkbla@aol.com
www.oakleysteel.com

OSP, INC. STEEL PRODUCTS CO.
Colorado
800-690-6711
fax 303-470-6711
e-mail: oakleysteel@msn.com
www.oakleysteel.com

WRITE IN NO. 8039

European Iron Works
805-967-8076; Fax: Same as phone
www.europeanironworks-sb.com
Goleta, CA 93117
Designer & fabricator of hand-forged & traditionally joined architectural products: railings, balconies, gates, wine cellar & entry doors, fireplace screens, lighting & furniture; iron, bronze, copper, aluminum & other materials.
Write in No. 3031

Fagan's Forge
860-928-4020; Fax: 860-963-0130
www.fagansforge.com
Pomfret Center, CT 06259
Supplier of hand-forged door hardware: reproduced from firm's collection of 18th-century wrought-iron latches, hinges, bolts, hooks, pulls & more; strap hinges for barn doors; shutter dogs; iron trammel hooks for fireplace cranes.
Write in No. 1010

Fine Architectural Metalsmiths used mixed metals to create a cluster of repoussed oak leaves in this grillework.

Fine Architectural Metalsmiths
845-651-7550; Fax: 845-651-7857
www.iceforge.com
Chester, NY 10918
Designer & custom fabricator of ornamental metalwork: traditional liturgical motifs; street furnishings, lighting & more; curved, straight & monumental stairs; registers & grilles; hand-forged & wrought iron, bronze & aluminum.
Write in No. 2640

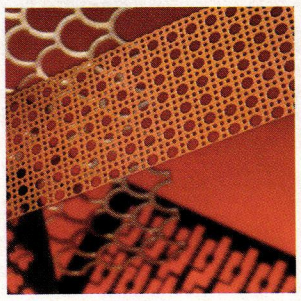
Gaby's Shoppe
800-299-4229; Fax: 214-748-7701
www.gabys.com
Dallas, TX 75207
Manufacturer of handcrafted iron decorative drapery hardware: for curved & angled bay windows & arches; 30 standard finishes; more than 10 finial options.
Write in No. 2520

This wrought iron gate was fabricated by Gaby's Shoppe.

Goddard Mfg. Co.
800-536-4341; Fax: 785-689-4303
www.spiral-staircases.com
Logan, KS 67646
Custom fabricator of stairs: spiral & curved; balusters & newels; all wood (mainly pine & oak), steel/wood combinations & all steel; wholesale prices.
Write in No. 4780

Goddard custom designed and fabricated this spiral staircase in steel.

Hans Liebscher Custom Copperworks & Sheet Metal
760-471-5114; Fax: 760-471-7884
www.hanscopper.com
San Marcos, CA 92079
Fabricator of custom copper & lead leader heads, weathervanes, spires, finials & ornament: stock patterns or client's specifications; smooth-drawn horizontal gutters; twisted or fluted downspouts; copper roofing; on-site consulting.
Write in No. 1038

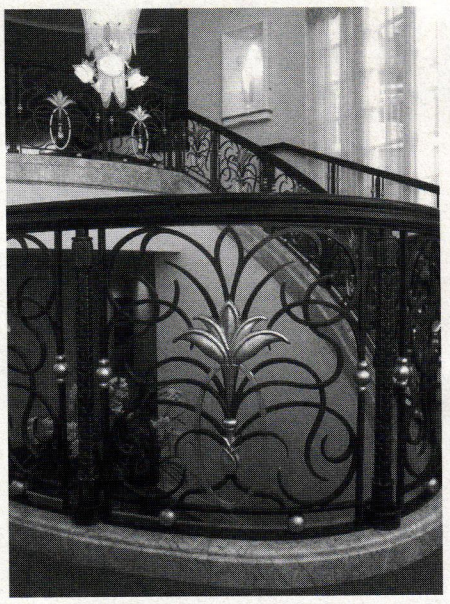


Harrington & King custom designs and perforates a variety of sheet sizes and metals.

Harrington & King Perforating Co.
800-621-3869; Fax: 773-261-1686
www.hkperf.com
Chicago, IL 60644
Manufacturer of ornamental metalwork: air-flow screens, registers, grilles & radiator covers; perforated steel, bronze & aluminum; custom & standard designs.
Write in No. 1020

Heather & Little, Ltd.
800-450-0659; Fax: 905-475-9764
www.heatherandlittle.com
Markham, ON, Canada L3R OH1
Fabricator & supplier of sheet-metal roofing & specialty architectural sheet metal: finials, cornices, leader heads, cresting, canopies, shingles, siding, cupolas, steeples, domes & snowguards; reproductions; custom bronze windows.
Write in No. 2470

Hiles Plating Co.
816-421-6450; Fax: 816-421-1132
www.hilesplating.com
Kansas City, MO 64108
Restorer of antique hardware: custom finishes on new hardware; custom-finish matching service; metal polishing & replating; gold plating of tabernacles & church wares.
Write in No. 1604



Historical Arts & Casting produced this bronze and aluminum railing for the Beverly Hills Hotel.

Historical Arts & Casting, Inc.
800-225-1414; Fax: 801-280-2493
www.historicalarts.com
West Jordan, UT 84088
Designer & custom fabricator of ornamental metalwork: doors, windows, hardware, stairs, balustrades, registers, fences, lighting, gutters, columns, weathervanes, planters & more; iron, bronze, aluminum & steel; restoration services.
Write in No. 1210

House of Antique Hardware
888-223-2545; Fax: 503-233-1312
www.houseofantiquehardware.com
Portland, OR 97214
Manufacturer & supplier of door & furniture hardware & accessories: rare & ornate hardware; 1860s-1930s styles; switch plates; grilles & registers; historical reproductions.
Write in No. 1096

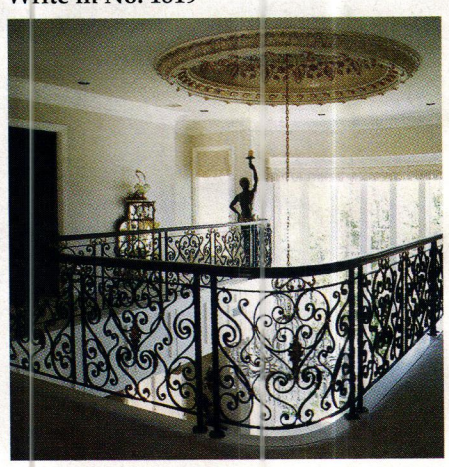
Iron Gallery Store, Ltd.
714-493-1012; Fax: 714-921-0561
www.theirongallerystore.com
Anaheim, CA 92817
Custom designer & manufacturer of wrought-iron elements: doors, gates, staircase railings, residential & commercial lighting & more; Mediterranean & Arts & Crafts styles.
Write in No. 1661

Kayne and Son Custom Hardware, Inc.
828-667-8868; Fax: 828-665-8303
www.customforgedhardware.com
Candler, NC 28715
Manufacturer of forged- & cast-metal hardware: strap, H, HL, butterfly & butt hinges; thumb-latch locksets, gate hardware, shutter dogs & more; fireplace tools; bathroom accessories & kitchen equipment; restoration services.
Call for more information.

Kees, Inc., Architectural Division
800-889-7215; Fax: 920-876-3065
www.kees.com
Elkhart Lake, WI 53020
Custom fabricator of architectural grilles & radiator covers: stamped & linear bar types; for architectural & HVAC applications; aluminum, brass, bronze, stainless steel, galvanized steel & steel; many finishes; water-jet cutting.
Write in No. 1335

Kenneth Lynch & Sons, Inc.
203-762-8363; Fax: 203-762-2999
www.klynchandsons.com
Wilton, CT 06897
Manufacturer of ornamental metalwork & cast-stone products: planters, urns, benches, fountains, statuary, topiary, sundials & weathervanes; cast stone, cast & wrought iron, lead & bronze; stock & custom designs.
Call for more information.

Leonard Metal Art Works,Inc.
631-287-5535; Fax: 631-287-5548
www.lmaw.us
Southampton, NY 11968
Custom fabricator of gates, fences, doors, stair railings, balustrades & light fixtures; custom reproductions & restoration; bronze, iron, stainless steel & aluminum.
Write in No. 1819



Leonard Metal Art Works specializes in wrought iron, bronze and stainless-steel railings in any size and style.

Liberty Brass Turning Co.
718-784-2911; Fax: 718-784-2038
www.libertybrass.com
Long Island City, NY 11101
Manufacturer of metal components: drawer pulls, window hardware, lamp finials, couplings, turned bar stock knobs, spacers, balls, check rings & furniture & display fittings; brass, aluminum & stainless steel; custom & stock.
Write in No. 8440

Liberty Brass produces a full range of balls, half balls, finials, couplings and other turned metal components in aluminum, steel and stainless steel.

Liberty Ornamental Products
800-636-5470; Fax: 419-636-2365
www.libertyornamental.com
Bryan, OH 43506
Manufacturer of metal gates: metal & plastic ornamental components; die-cast metal ball tops, caps, shoes & finials; non-rusting pewter finish; plastic ornamental finials & decorative scrolls in a variety of colors.
Write in No. 5340

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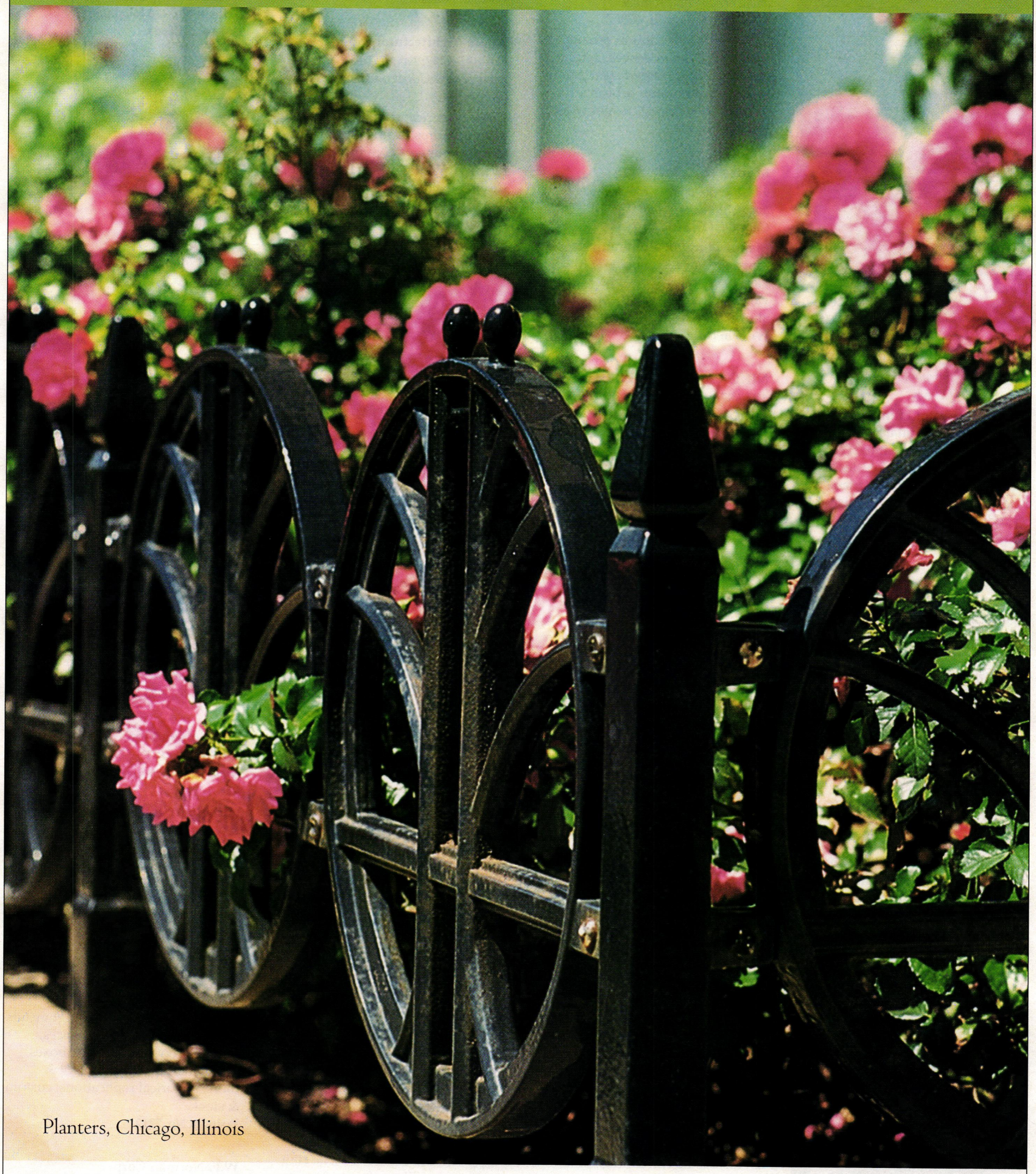

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WRITE IN NO. 1005

The exterior metal on the Guardian Life Insurance Building in New York City was restored by Michigan Ornamental Metals.

Michigan Ornamental Metals
201-945-4930; Fax: 201-945-4931
www.michiganornamental.com
Ridgefield, NJ 07657
Custom fabricator of metal ornament: columns, capitals, rosettes, wreaths, cornices & ceilings; cupolas, domes, gutters, finials, leaders & leader boxes; stamped/pressed sheet metal; replications & historic reproductions.
Write in No. 9520

Modern Art Foundry
718-728-2030; Fax: 718-267-0819
www.modernartfoundry.com
Astoria, NY 11105
Bronze casting: lost-wax & sand castings; non-ferrous metals; sculpture & commemorative design services; conservation & maintenance; more than 70 years of experience.
Write in No. 1810

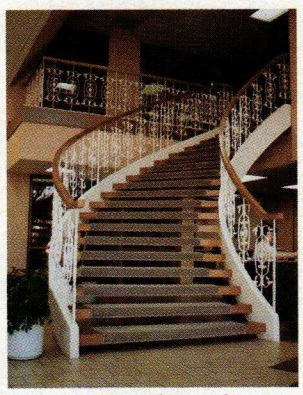
Monarch Products Co.
201-507-5551; Fax: 201-438-2820
www.monarchrad.com
Carlstadt, NJ 07072
Supplier of all-steel radiator enclosures: baked-enamel finishes & grille fronts; stock & custom; for corporate boardrooms, offices, churches, institutions & private residences.
Write in No. 6060

Mueller Ornamental custom produces hand-forged metalwork, such as this decorative balcony.

Mueller Ornamental Iron Works, Inc.
847-758-9941; Fax: 847-758-9945
www.ornamentaliron.net
Elk Grove Village, IL 60007
Designer & fabricator of ornamental metalwork: doors, fences, gates & stairs; cast iron, forged steel, stainless steel, aluminum & bronze; restoration services; custom work.
Write in No. 229

Munns Mfg., Inc.
435-257-5673; Fax: 435-257-3842
www.munnsmfg.com
Garland, UT 84312
Manufacturer of aluminum steeples, pinnacles, spires, cupolas & towers: variety of styles & designs; weathervanes optional; custom copper & aluminum dormers.
Write in No. 1356

NIKO Contracting Co., Inc.
412-687-1517; Fax: 412-687-7969
www.nikocontracting.com
Pittsburgh, PA 15213
Custom fabricator & contractor of sheet metal & roofing: slate, tile & other roofing; storefronts, cornices, cupolas, domes, steeples, snowguards & leader heads; copper, lead-coated copper, zinc & stainless steel; metal ceilings.
Write in No. 8300 for roofing; 861 for ceilings



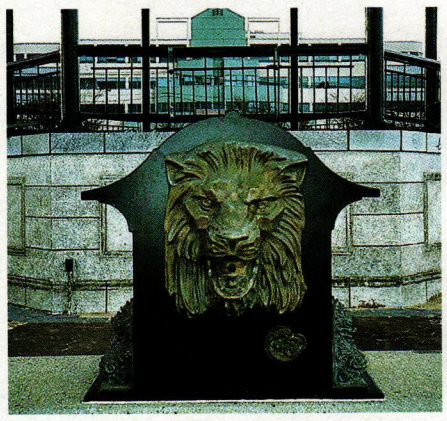
Oakley Steel specializes in the custom fabrication of curved stairways.

Oakley Steel Products
888-OAKLEY2; Fax: 708-544-7986
www.oakleysteel.com
Bellwood, IL 60104
Manufacturer of custom spiral stair stringers & stair pans: curved tubes, angles, handrails, channels, plates & beams; stainless steel, aluminum & various alloys.
Write in No. 8039

Old Smithy Shop
603-672-4113; Fax: Same as phone
www.oldsmithyshop.com
Brookline, NH 03033
Custom fabricator of hand-forged Early American hardware: Suffolk & Norfolk latches & pulls; pintle strap hinges & H & H-L hinges & cabinet latches; window, gate & barn hardware.
Write in No. 5110

Ornametals, LLC
256-350-7410; Fax: 256-309-5921
www.ornametals.com
Decatur, AL 35601
Fabricator & distributor of metal roofing & roof ornament: finials, cupolas, crosses, weathervanes, gutters, leader boxes & more; exterior balustrades & cornices; copper & zinc.
Write in No. 5025

Schiff Architectural Detail
617-887-0202; Fax: 617-887-0127
www.schiffarchitectural.com
Chelsea, MA 02150
Custom fabricator of metalwork: exterior lamps, lampposts, plaques, fences, fountains & railings; nonferrous forged work; machine-shop service; rubber molding & pattern work; historical restoration & conservation.
Write in No. 7730



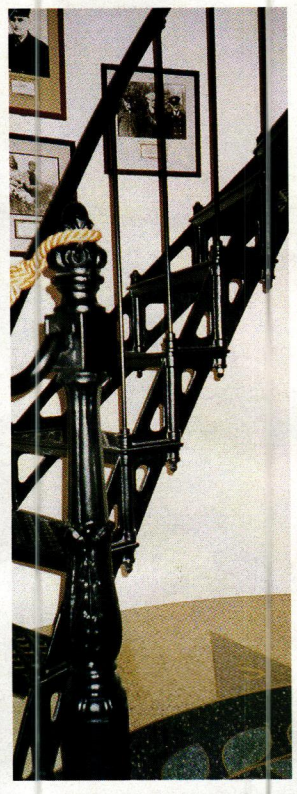
This painted sand-cast bronze lion mask was created by Schiff Architectural Detail.

Schwartz's Forge & Metalworks, Inc.
315-841-4477; Fax: 315-841-4694
www.schwartzsforge.com
Deansboro, NY 13328
Custom fabricator of architectural hand-wrought ironwork: stairs, railings, balustrades, gates, doors, fences & grilles; forged bronze, monel steel & stainless steel; historical restoration.
Write in No. 1218

This stair balustrade with gilded repousse leaf work and custom bronze cap was created by Schwartz's Forge & Metalworks.

Signon USA
866-744-6661; Fax: 718-485-8400
www.signonusa.com
Brooklyn, NY 11212
Supplier of ornamental metal stair parts, stair railings, fences & gates: Classical & contemporary designs; works with architects, designers, blacksmiths & homeowners; door hardware; curtain rods.
Write in No. 191

Steptoe & Wife Antiques Ltd.
800-461-0060; Fax: 416-780-1814
www.steptoewife.com
Toronto, ON, Canada M6B 1V9
Fabricator of architectural metalwork: cast-iron spiral & straight staircases, railings, gates & grilles; copper, iron, aluminum, steel, brass & bronze fabrication for renovation & restoration projects.
Write in No. 470 for stairs; 9201 for ceilings



Steptoe & Wife fabricates Victorian-styled, cast iron spiral and straight staircases, such as this one at Keeper's Restaurant, Santa Barbara, CA.

Steven Handelman Studios
805-962-5119; Fax: 805-966-9529
www.stevenhandelmanstudios.com
Santa Barbara, CA 93103
Manufacturer of hand-forged traditional lighting, grilles & fireplace accessories: many types & styles of lighting & grilles; fireplace screens, grates & inserts; historic reproduction & restoration services.
Write in No. 483

The Golden Lion
310-398-2848; Fax: 310-398-0605
www.thegoldenlion.com
Los Angeles, CA 90066
Importer of European hardware & accessories in hand-forged iron & bronze: window & door hardware; bronze fountain spouts; traditional & period styles.
Write in No. 115

Vulcan Supply Corp.
802-893-0512; Fax: 802-893-0534
www.vulcansupply.com
Westford, VT 05494
Supplier of ornamental sheet metal: finials, weathervanes, cornices, cupolas, roof vents, leader boxes, fountains, garden ornament & more; historical replications; custom & stock.
Write in No. 7212

W.F. Norman Corp.
800-641-4038; Fax: 417-667-2708
www.wfnorman.com
Nevada, MO 64772
Manufacturer of sheet-metal ornament: hundreds of stock designs; cornices, moldings, brackets, pressed-metal ceilings, roofing, siding, finials & more; zinc, copper & lead-coated copper; duplication from samples or drawings.
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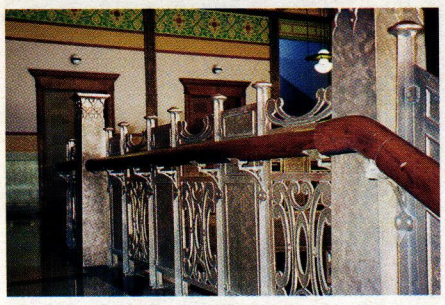


Wagner Foundry specializes in custom castings of architectural elements and ornamental components for historic landmarks and storefronts.

Wagner Foundry, Inc.
800-276-1084; Fax: 773-276-9656
www.wagnerfoundry.com
Chicago, IL 60622

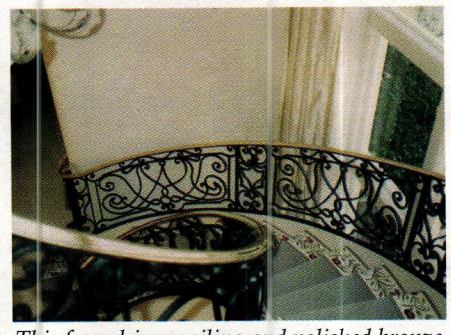
Custom fabricator of architectural, art & industrial castings: hardware, sculpture, grilles, signage, plaques, storefront elements & cast-metal ornament; aluminum, bronze & brass; sand & lost-wax casting; ecclesiastical work.

Write in No. 1062

Wiemann Ironworks
918-592-1700; Fax: 918-592-2385
www.wiemanniron.com
Tulsa, OK 74104

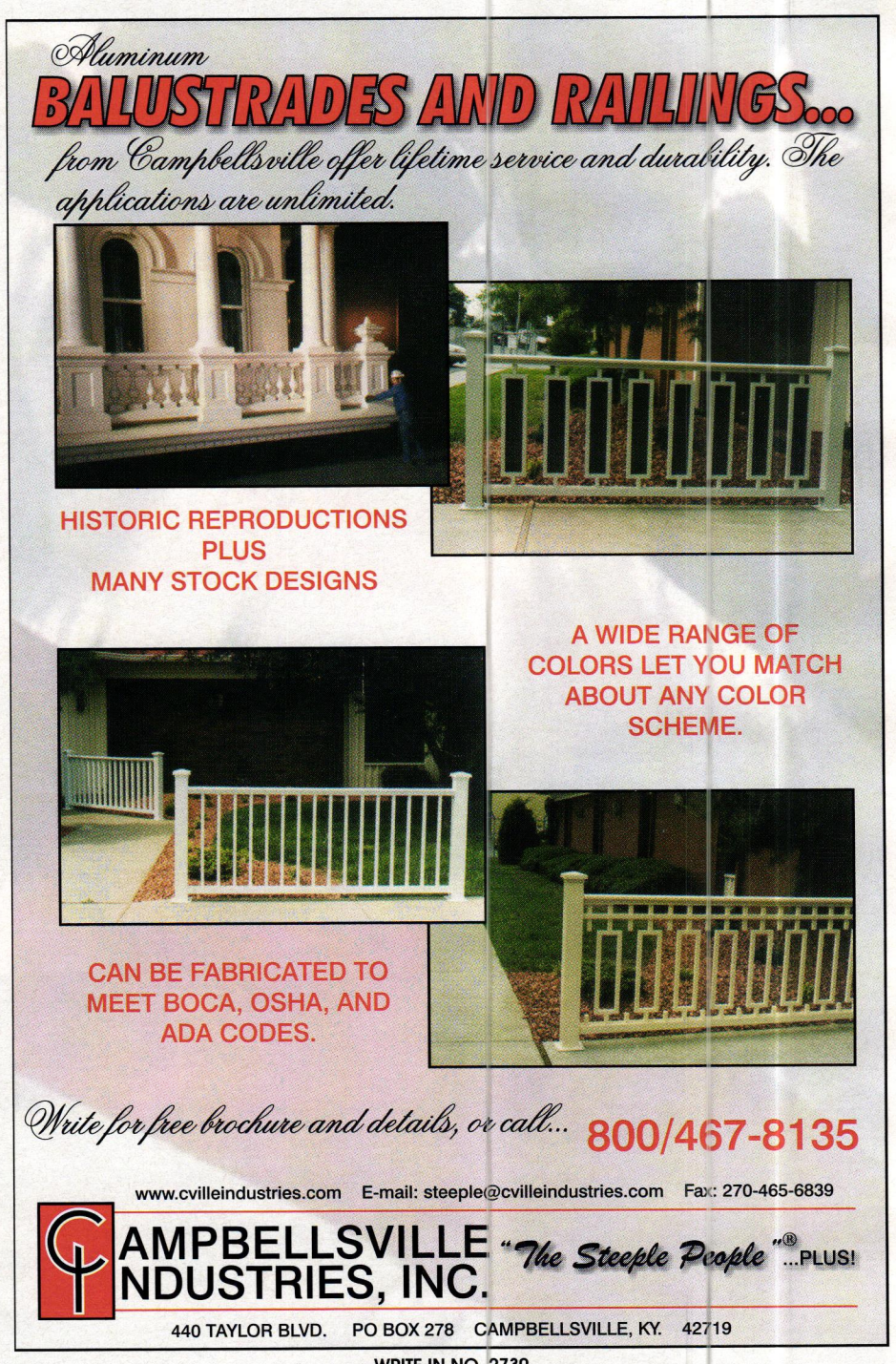
Fabricator, finisher & installer of ornamental metalwork: railings, gates, balustrades, lighting, fences, furniture, doors & fixtures; bronze, brass, aluminum, iron, steel & stainless steel; CAD services; national market.

Write in No. 1223



This forged-iron railing and polished bronze cap rail was designed, fabricated, finished and installed by Wiemann Ironworks.

WRITE IN NO. 1020



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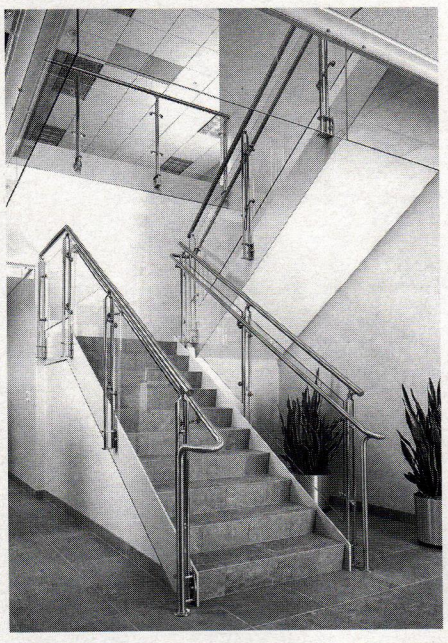

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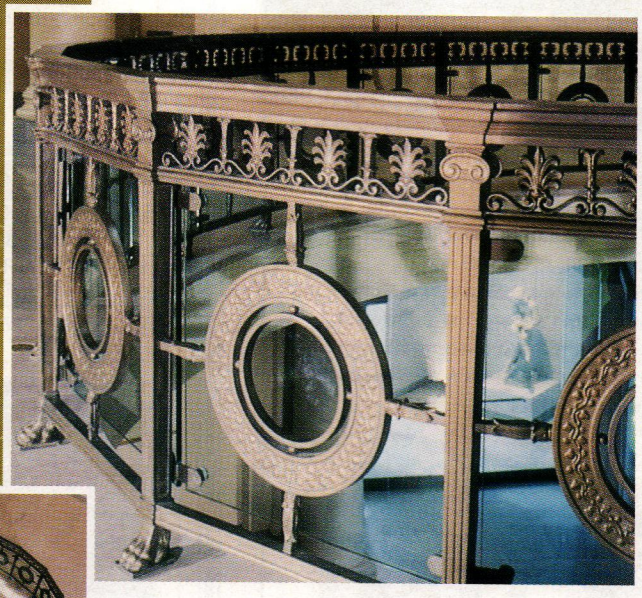

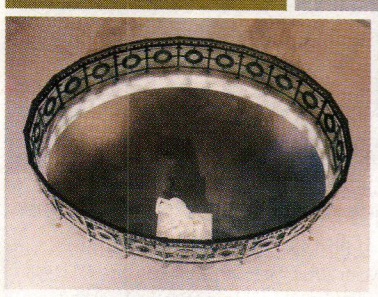

OBJECTIVE: Supply and install new custom cast iron rail at elliptical opening for the Museum of Fine Arts in Boston, MA

DILEMMA: Located in the same space is a historic cast iron rail. The design of this rail must be replicated and the height increased by 6" to be compliant with modern building codes.

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IRON WORK INC.

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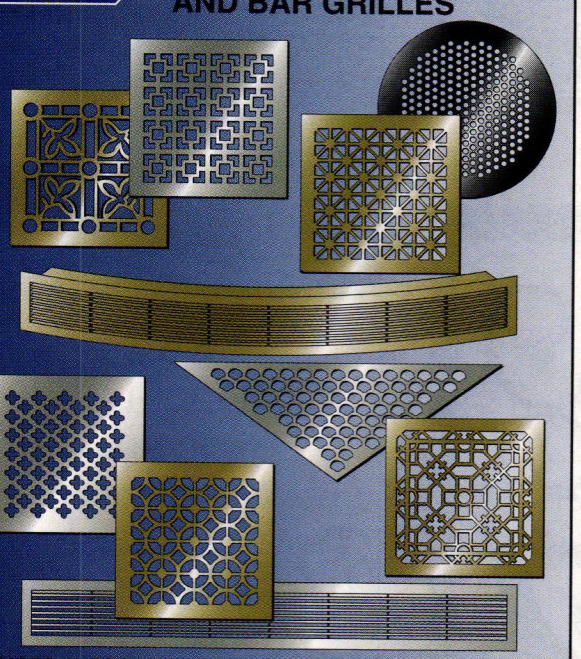

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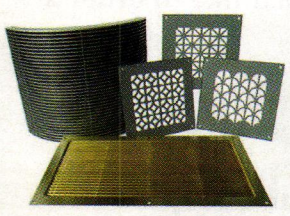
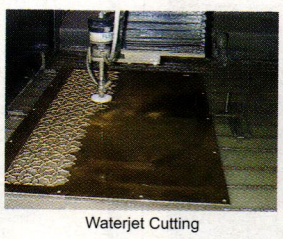
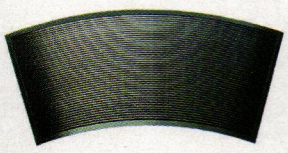




Waterjet Cutting



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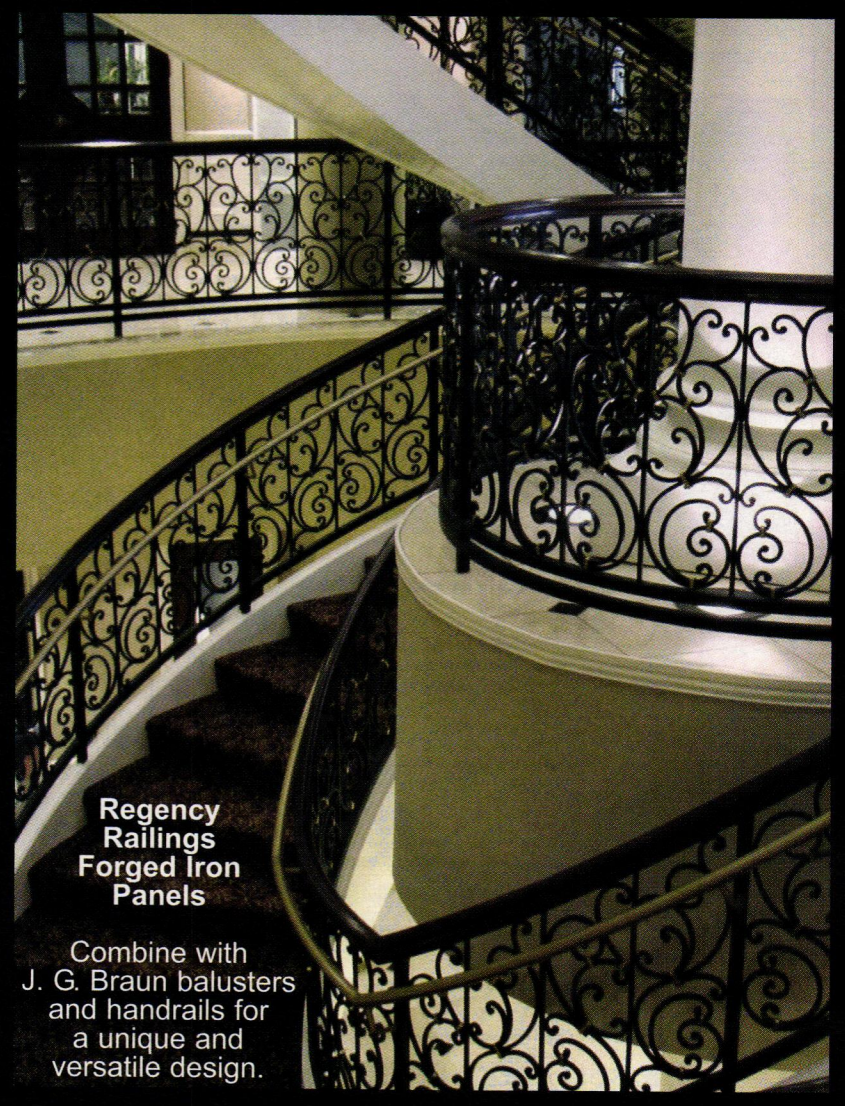

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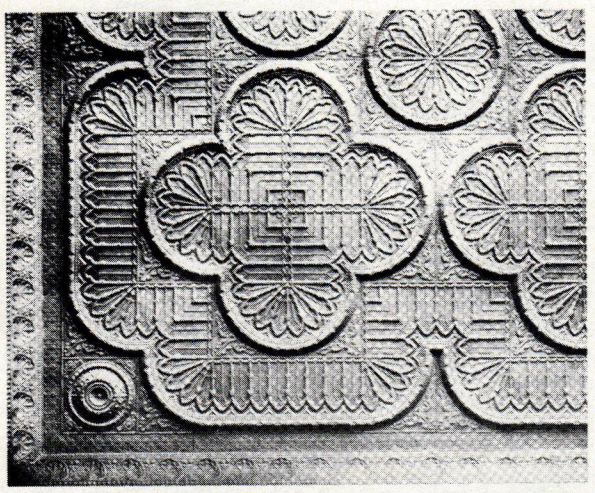

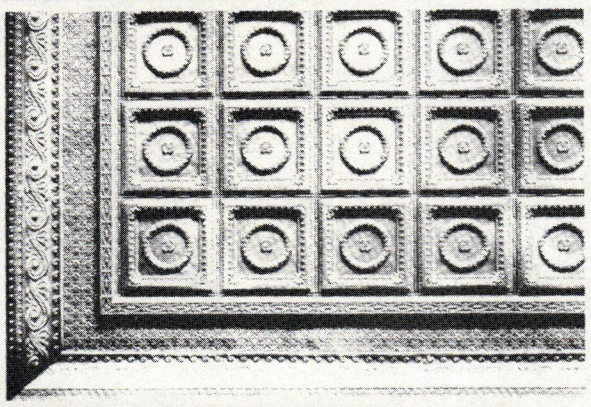

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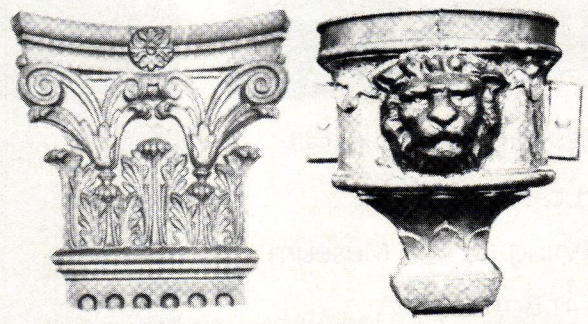

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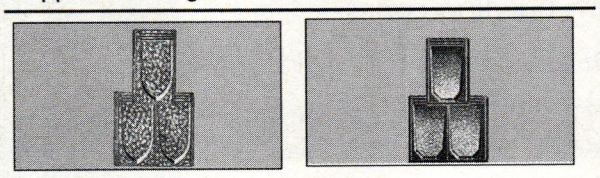

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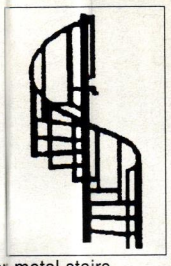

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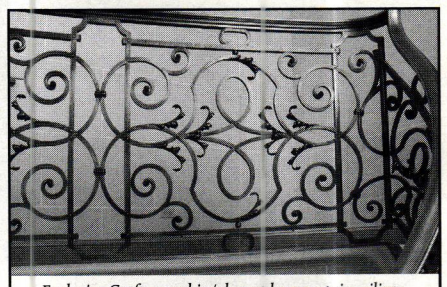

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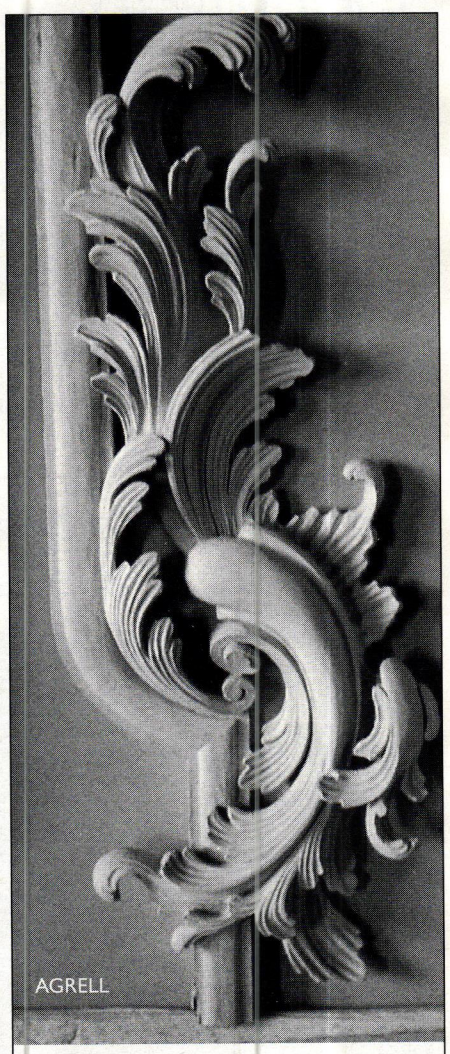

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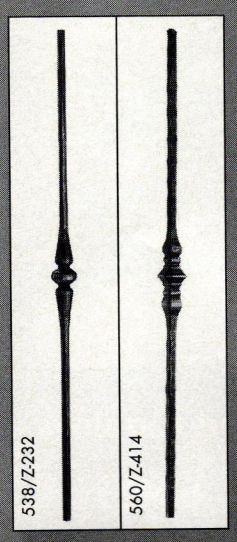

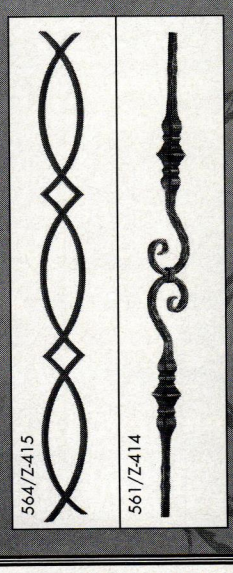

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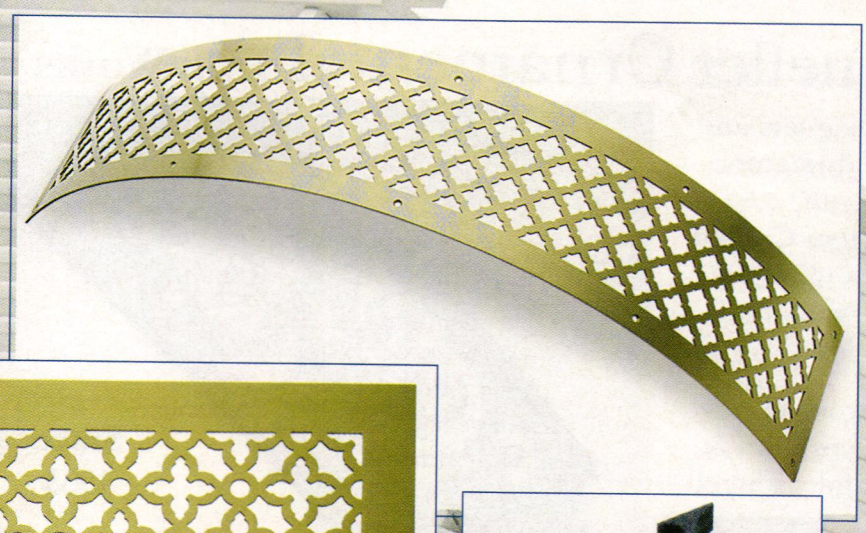

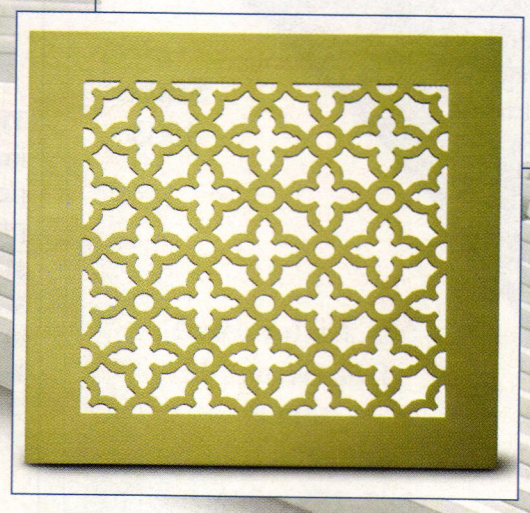

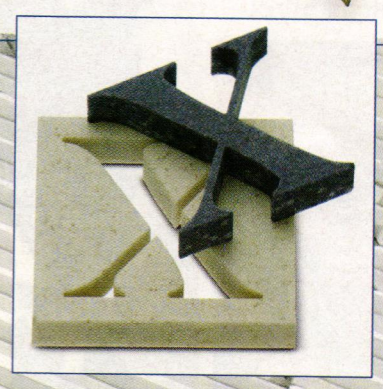

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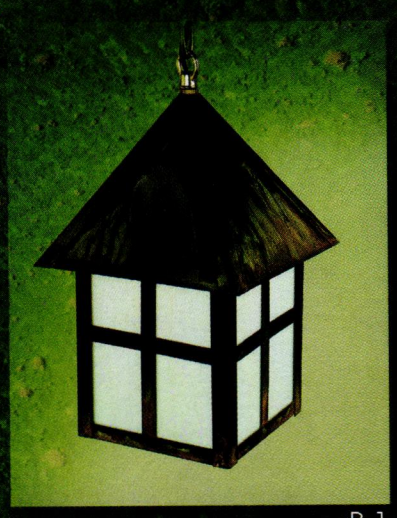
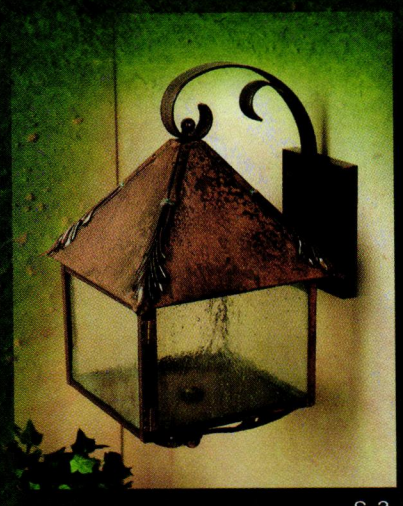


B-1



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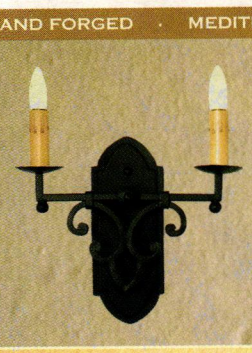

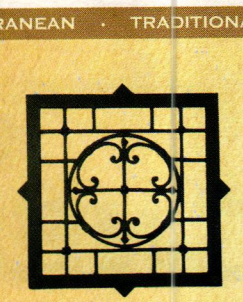

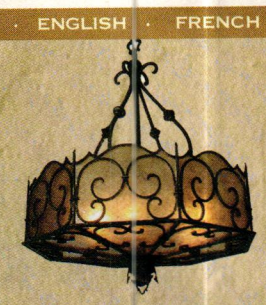

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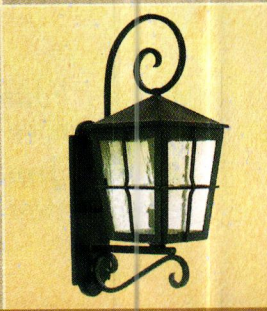

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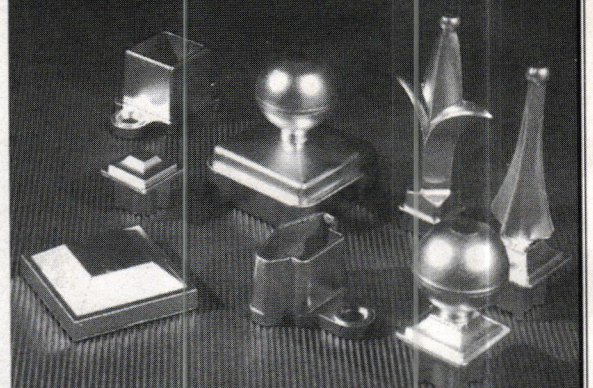

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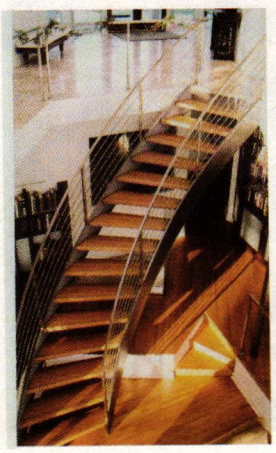

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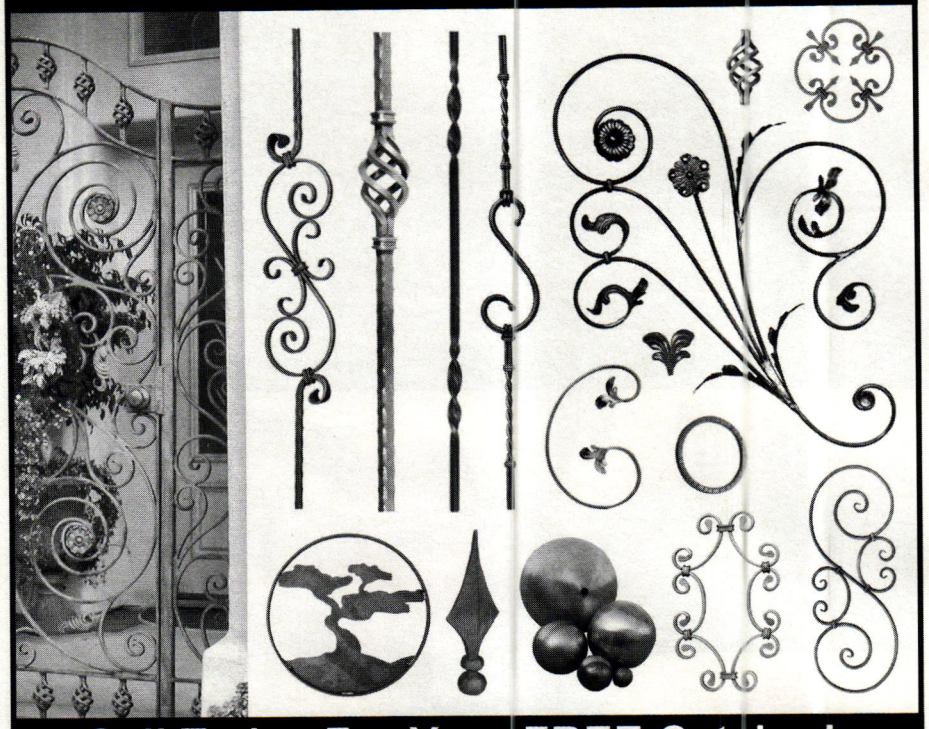

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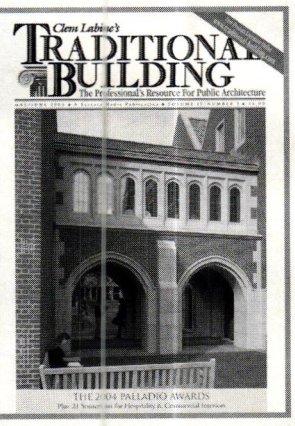

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IPTW 2006 – Rebuilding Hope in New Orleans

By Lisa Sasser, President, PTN

Since 1997, the International Preservation Trades Workshop (IPTW), sponsored by PTN, has been the only annual event in North America that brings together the foremost practitioners of all of the traditional building trades to share knowledge and skills through hands-on demonstrations and community building projects.

This year's IPTW will be unlike any other. In response to the Katrina disaster, the PTN community will gather in New Orleans to work together with residents of the historic Holy Cross District, one of the hardest hit neighborhoods, to "Rebuild Hope and Reclaim Heritage." Our goal is to bring the community of the trades together to help make a tangible difference in a neighborhood that is struggling to rebuild. Following the landfall of Hurricane Katrina on August 29, 2005, the neighborhood of Holy Cross was flooded by the breach along "Mr. Go," the Industrial Canal in the Lower Ninth Ward. The historic wood buildings of Holy Cross were subjected from two to four feet of water for as many as 30 days. Today, most of the buildings remain empty and suffer wind and flood damage ranging from leaking roofs to mold to structural destabilization. Additional damage has been done to vacant homes by well-intentioned untrained volunteers stripping and discarding salvageable architectural details and finishes.

Located adjacent to the Mississippi River in New Orleans' Ninth Ward, Holy Cross, named for the school built there in 1879, was the site of several waterfront plantations established in the eighteenth century. By 1900, the area was populated with German and Irish immigrants and African-Americans, and filled with farms that provided produce, poultry and dairy to the city's markets. In the 1910s, the swamps north of St. Claude Avenue were drained and the Industrial Canal was constructed in 1923, resulting in the development of the residential neighborhood known as the "Lower Ninth Ward." Architecturally, the neighborhood is defined by 19th- and early 20th-century shotgun houses and vernacular Creole cottages.

PTN and the **World Monuments Fund** (www.wmf.org) are working in partnership with the **Holy Cross Neighborhood Association** to establish a continuing presence in the community with a mobile Preservation Assistance Center, and a series of "hands-on" Field School sessions for homeowners, tradespeople and others, united in the belief that preservation is as much about people and community as it is about buildings. To learn how you can join the PTN teams working with local residents in the Holy Cross Neighborhood, visit us at www.ptn.org or contact the PTN office. Tradespeople with skills in historic roofing, carpentry, masonry, painting, and plastering are especially needed to help teach and facilitate workshops starting in June 2006. Donations of tools, materials and money are also needed to help sustain this long-term effort. With your help we *can* make a difference. ◆

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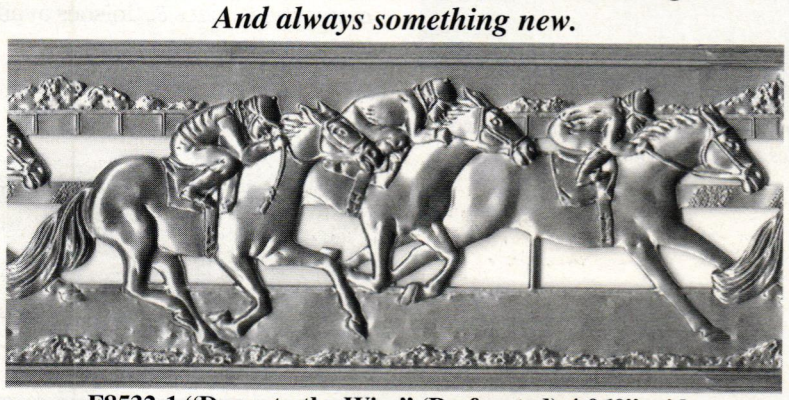

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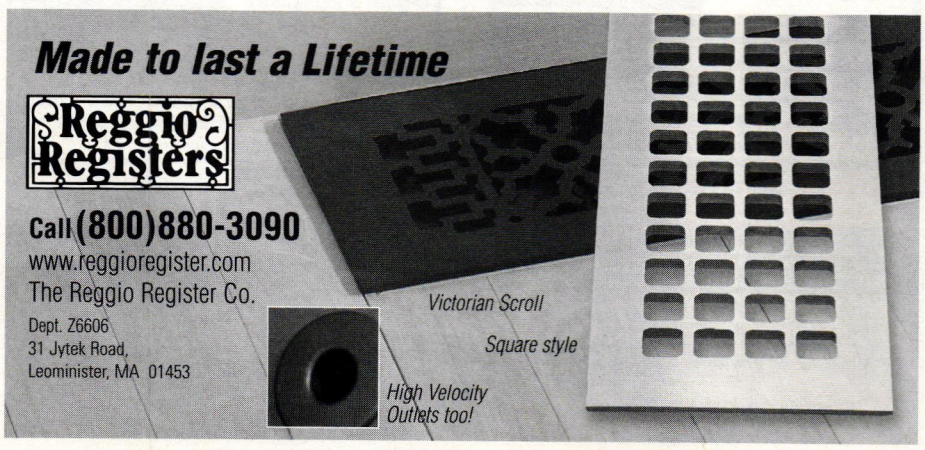

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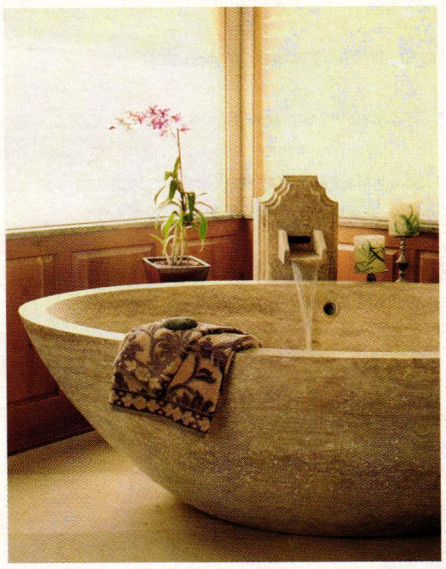

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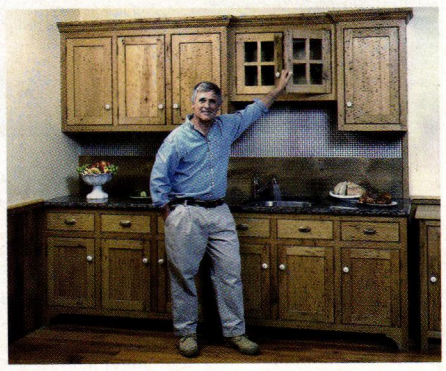

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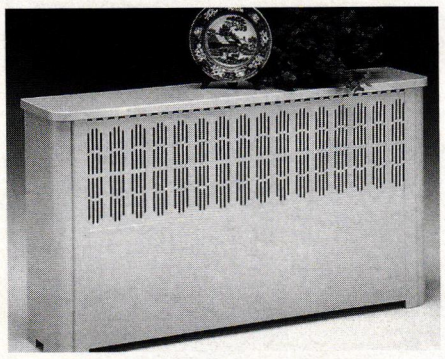

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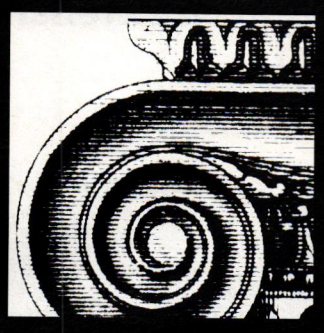

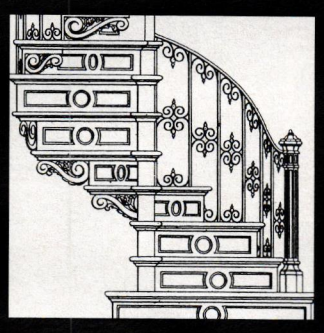

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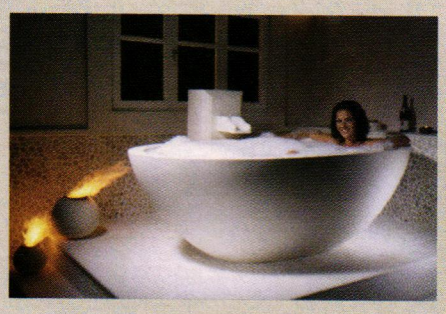

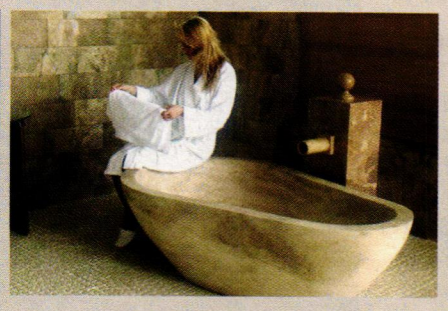

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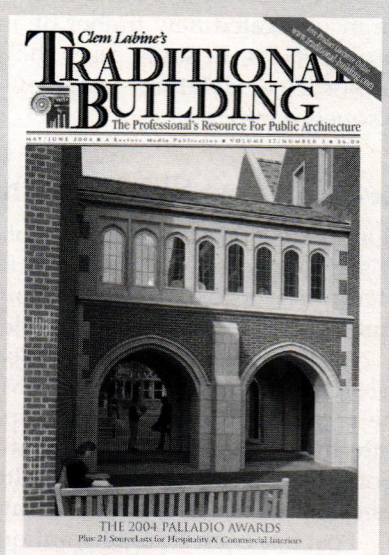

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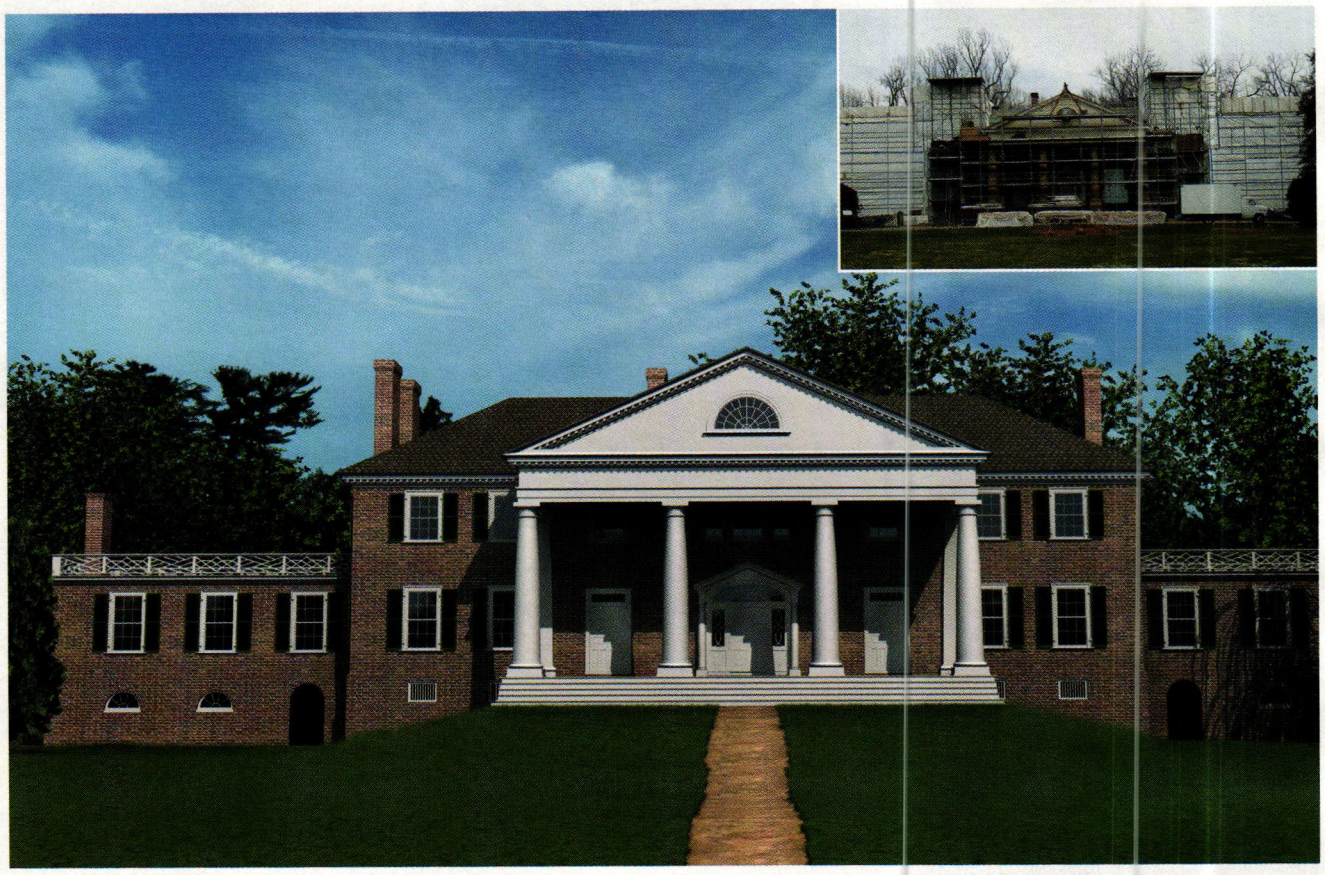
BACK TO BASICS

Restoring the original hip wood roof at James Madison's Montpelier required extensive framing repair before period-style cypress shingles could be added.

By Scott McBride



Originally constructed around 1760, the main house of James Madison's Montpelier, in Orange, VA, underwent significant alterations after it was purchased by William DuPont in 1901. A century later, it was donated to the National Trust for Historic Preservation; since 2004, it has been undergoing a restoration aimed at returning it to its Madison-era appearance. *CAD rendering: courtesy of The Montpelier Foundation and PartSense, Inc. Photo: John Jeanes, The Montpelier Foundation*

In 1901, industrialist William DuPont purchased Montpelier in Orange, VA, formerly the home of President James Madison and his first lady, Dolley. Times had changed in the 75 years since the Madisons entertained Jefferson and Lafayette on their columned veranda overlooking the Blue Ridge Mountains. The straightforward Georgian manor house that had originally been built by Madison's father around 1760 had sufficed for the president of a young republic, but it was inadequate for a scion of the Gilded Age. DuPont doubled the size of the structure by expanding Montpelier upward and outward.

Another century passed, and DuPont's daughter donated Montpelier to the National Trust for Historic Preservation. Restoration of the mansion to its Madison era appearance began in 2004 under the architectural direction of Mesick, Cohen, Wilson, Baker Architects of Albany, NY. After careful deconstruction of the DuPont additions, our company, Mustard Seed Master Builders, of Sperryville, VA, was called in to spearhead restoration of the roof.

The challenges were formidable. Original cornices had been sheared off to interface with the DuPont additions, and the Madison-era hip roof had been fundamentally altered. Timber trusses had begun to fail at critical points due to problems inherent to the 18th-century design, and leaky roof valleys had caused advanced structural decay. Once the framing was restored we would face the task of removing the existing copper roof and replacing it with period-authentic cypress shingles. We set up shop in the attic and went to work.

Orthopedic Carpentry

A varied regimen of framing repairs was prescribed by structural engineer Dave Fischetti of DCF Engineering of Cary, NC. Where the cornice had been removed we used lag-bolted scarf joints to extend truncated ceiling joists. In the attic we replaced missing rafters in their entirety, but in some cases the DuPont carpenters had retained portions of the original common rafters to serve as shortened jack rafters. To restore these to their full length we spliced on new wood of the same species — mostly heart pine, but in some cases, oak or poplar.

Instead of scarf joinery, we connected the old and new rafter sections with internal steel knife plates secured by self-drilling steel pins. The knife-plate system was originally developed in Germany as a fire-resistant alternative to surface-mounted timber framing hardware, but we focused on another advantage: the plates required only light end-trimming of the antique timbers, whereas scarf joints would have meant cutting away a substantial amount of original fabric. Also, slotting for the plates could be done in situ, whereas fashioning scarf joints in mid-air would have been onerous at best. Our onsite testing confirmed the strength of the knife-plate system, and we used a Mafell chain-type mortising tool to plow the ¼-in.-wide slots.

To restore Montpelier's cornice, the ceiling joists that had been cut off to interface with a 1901 addition were extended. After splicing on new material with a lag-bolted scarf joint, the joist extensions were trimmed to length. *Photo: Amy Wysocki*

Montpelier's classic 18th-century roof frame consists of heavy king-post trusses interspersed with purlins and light secondary rafters. Another antique feature is Montpelier's dragon beams – heavy diagonal ceiling beams that run directly below each of the roof's four hips. This system is elegant but impractical because it concentrates extreme loads at a few key points. A serious problem occurred where both dragon beams and kingposts had been tenoned into lower chords at mid-span. This traffic jam of converging timbers resulted in a cluster of mortises that had weakened the lower chords to the point of failure. A later hand-forged iron staple had only made matters worse. To remedy the situation, Fischetti designed custom steel hangers, which we had fabricated by a machinist. We provided the machinist with a custom-fitted wooden pattern for each location to cope with the vagaries of hand-hewn framing members.

Longstanding leaks caused our biggest headaches. Water had seeped into wall plates and truss chords, turning them to mush. One of the principal tie beams connecting Montpelier's Tuscan portico to the house had rotted clean through. Repairs required extensive shoring before the ailing timbers could be operated on. After trimming back the decayed areas to sound wood we incorporated new timber by means of keyed scarf joints reinforced with through-bolts. In some cases the surgery had to be performed from within the portico entablature – a narrow chamber barely wide enough for a worker to squeeze into.

Reviving Lost Shingle Techniques

Montpelier's original shingle roof was extended twice before being replaced by standing-seam metal around 1850. Fortunately, for posterity's sake, these alterations left behind a sampling of shingles that were either recycled as shims or left behind as debris hidden in the attic.

Mark Wenger, the project's lead architectural historian, was able to infer the shingle detailing of the 1825 Madison roof based on the various shapes of the recovered shingles. He compared them to photographs of time-frozen 18th- and 19th-century roofs that had been found encapsulated within later roof expansions. He also consulted with Peter Post of Richmond, VA, the restoration contractor who ultimately supervised the shingling at Montpelier.

Post has been shingling antique roofs in the Tidewater region of Virginia for more than 30 years, including such notables as Bacon's Castle (1663) and Bowling Green (1743). The Bowling Green house has an encapsulated dormer that Post was familiar with, and it turned out to be a "Rosetta stone" that informed the shingling at Montpelier. A peculiar beveled edge on one of the recovered Montpelier shingles was identical to a type found on the

A spliced hip rafter was grooved with a chain mortiser to receive internal steel knife plates. *Photo: Amy Wysocki*

Bowling Green dormer, suggesting that Montpelier's hips had been capped with a narrow tear-drop shingle. The evidence was persuasive and the detail was adopted.

In addition to the tear-drop feature, the hips at Montpelier are "fanned" – a typical southern shingle detail of the period. Fanned hips feature progressively canted side-joints, which create a pagoda-like effect. Roof valleys of the period were fanned like the hips, but in reverse; the width of a valley shingle narrows toward the butt rather than the feather end. The technique is called "sweeping" the valley.

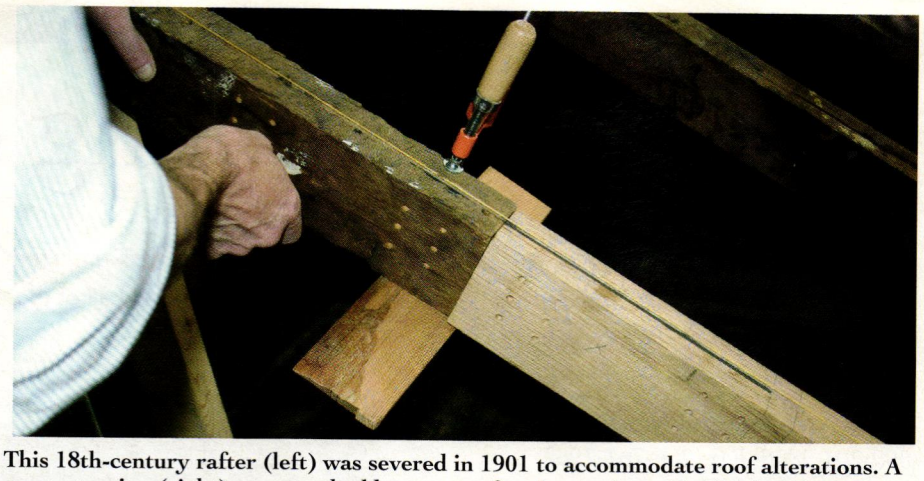
To research the subject of swept valleys and fanned hips, Montpelier's restoration director John Jeanes turned to the internet. He hit the jackpot when he located a technical brief describing the recent re-roofing of the Chowan County Courthouse in Edenton, NC. The brief's author, architect John L. Willers, confirmed our misgivings about the swept valley detail: though historically accurate, it seemed doomed to early failure by the geometry of its tightly spaced joints. The remedy Willers employed, and which we also resorted to, was a metal flashing woven, or interlaid, into each course at the valley. Whether this option was employed by 18th-century builders is uncertain, but the horrendous damage caused by leaky valleys at Montpelier made us unwilling to proceed without the backup protection of flashing.

To physically rehearse the details at Montpelier, Post shingled a 12-ft. mockup that included a hip and a valley. To ventilate the shingles, we removed the 1850s solid sheathing and replaced most of it with spaced battens, but a 40-in.-wide strip of solid sheathing at the eaves was lined with EPDM rubber as a defense against ice dams. Rubber was also installed beneath valleys as further backup protection against leakage. The entire roof was underlaid with Roof Shield, a highly vapor-permeable, self-sealing membrane that lasts longer than felt. Cedar Breather was used under the shingles throughout as another way to promote drying.

All told, Montpelier's roof took over a year to restore. With her bones braced and her cap feathered with cypress, James and Dolley's home should last another 250 years. ◆

Scott McBride has been a building and restoration contractor for more than 30 years. He is also a senior contributing editor at Fine Homebuilding Magazine, *and the author of two books,* Landscaping with Wood *and* Build Like A Pro: Windows and Doors.

Two dragon beams, a joist and a kingpost all converge at the midpoint of the principal roof truss. The resulting mortises weakened the lower chord of the truss to the point of failure. After jacking up the truss, wooden patterns were made for specially designed steel hangers. *Photo: Amy Wysocki*



This 18th-century rafter (left) was severed in 1901 to accommodate roof alterations. A new extension (right) was attached by means of an internal steel knife plate that bridges the joint. The plate drops in from the top and is secured by four sets of self-drilling steel pins. *Photo: Maggie Wilson*

Old-growth cypress shingles were laid over new spaced battens to restore Montpelier's roof surface. The green membrane is Roof Shield, and the black mesh just above the shingles is Cedar Breather. A swept valley is visible behind the chimney at left, and a fanned hip appears on the right. The carpenter's foam rubber cushion protects shingles during installation.

Old-growth cypress shingles were used to restore Montpelier's roof surface. The valleys were "swept," a period treatment that creates a seamless transition between adjoining roof planes. A hidden leaf of stainless-steel flashing is woven into each course at the valley. *Photo: Maggie Wilson*

One of the beams that ties Montpelier's portico to the house had rotted clean through, so a 12-ft. section in the middle had to be replaced. Bolted scarf joints united replacement material with the original fabric. Reclaimed heart-pine timbers were salvaged from a textile mill in South Carolina. *Photo: Maggie Wilson*

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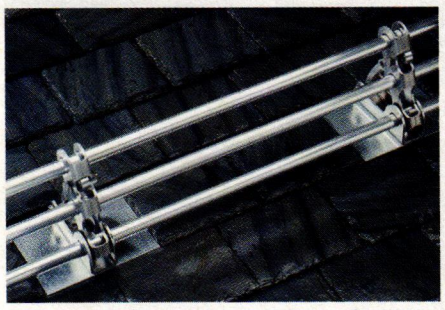

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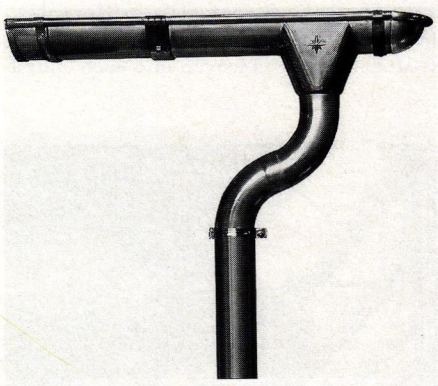

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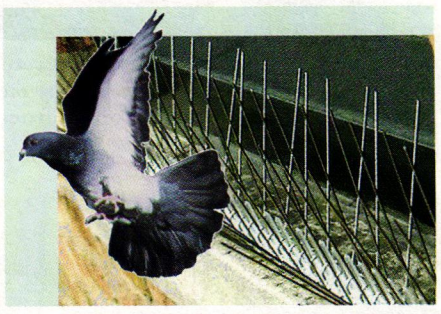

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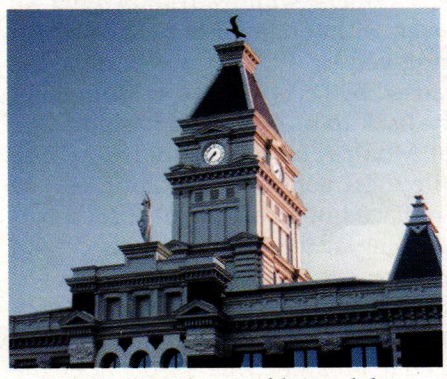

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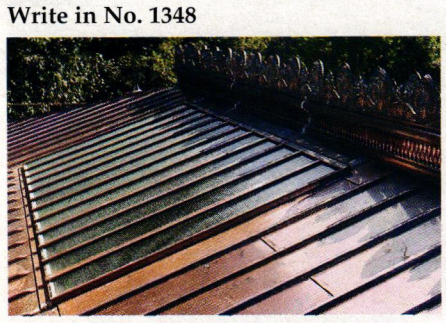

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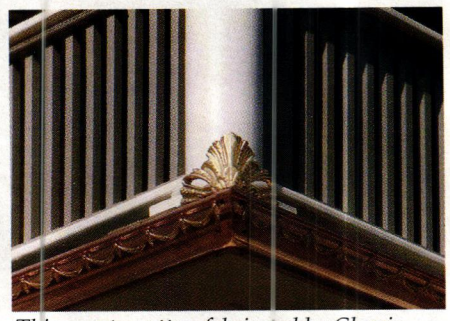

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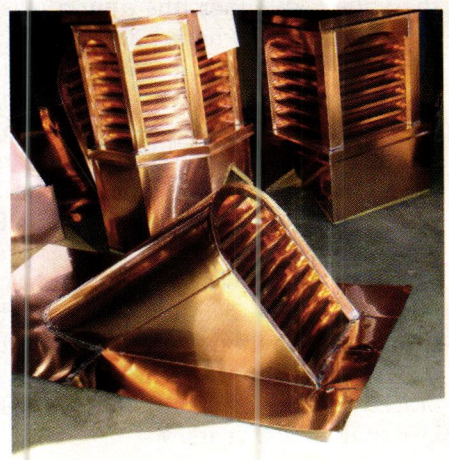

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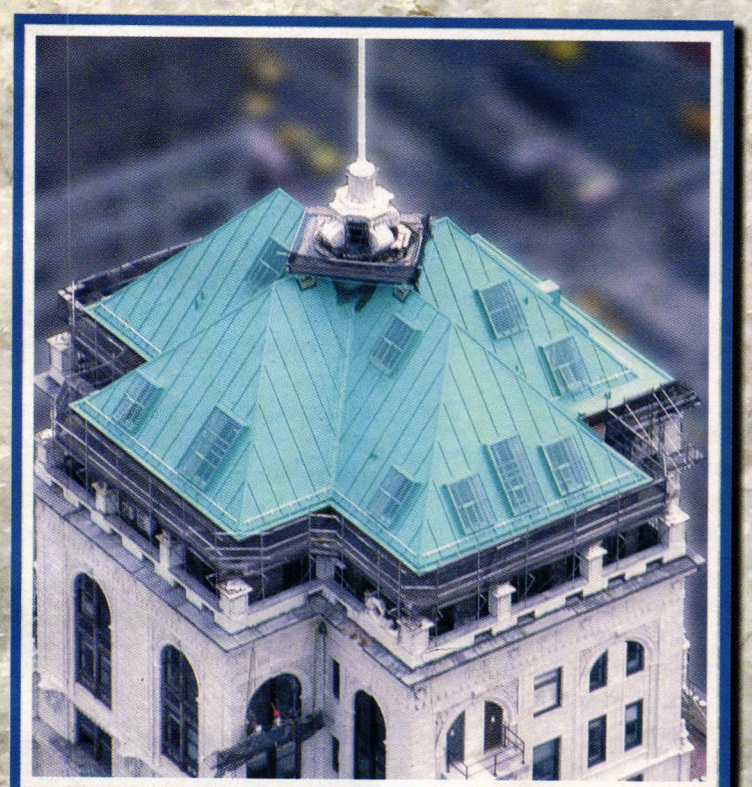
Keller, TX 76248
Manufacturer of sheet-metal products: spires, finials, louvers, dormers, weathervanes, cupolas, conductor heads, cornices, cladding, chimney caps, canopies, bronze doors & more.
Write in No. 1490

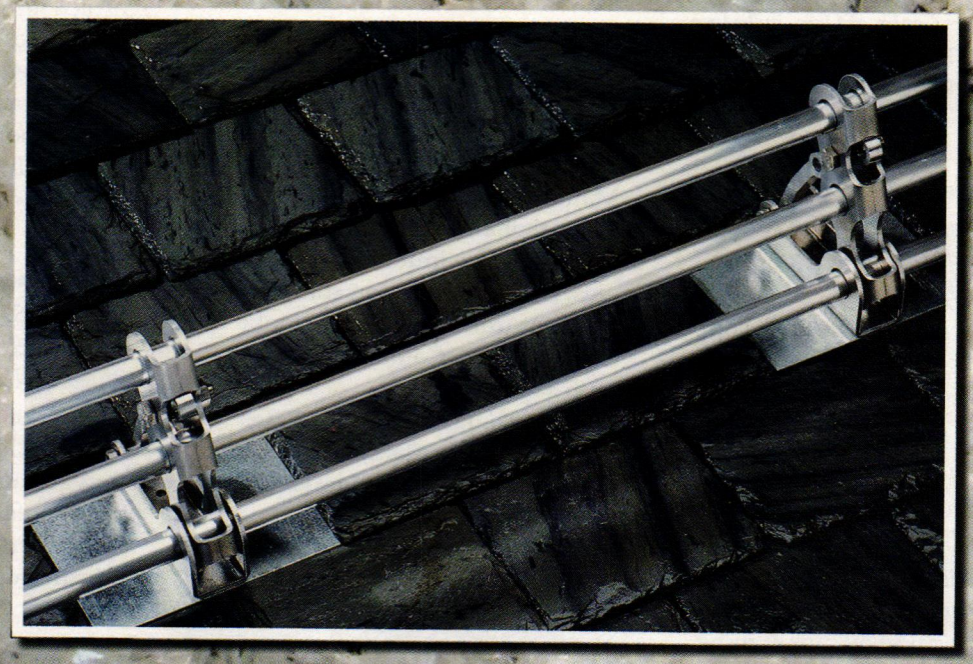
Country Carpenters, Inc.
860-228-2276; Fax: 860-228-5106
www.countrycarpenters.com
Hebron, CT 06248
Manufacturer of pre-cut, New England-style post-&-beam carriage houses: garden sheds & country barns; pre-cut, pre-engineered building kits; cupolas; family owned & operated since 1974; catalog $5.
Write in No. 1439

ALPINE SNOWGUARDS

A Division of Vermont Slate & Copper Services, Inc.

SETTING THE INDUSTRY STANDARD





www.AlpineSnowGuards.com

WRITE IN NO. 145

Craftwright, Inc.
410-876-0999; Fax: Same as phone
www.craftwrighttimberframes.com
Westminster, MD 21157
Supplier of timber-frame structures: home, barn, bridge, steeple & church framing & more.
Write in No. 645

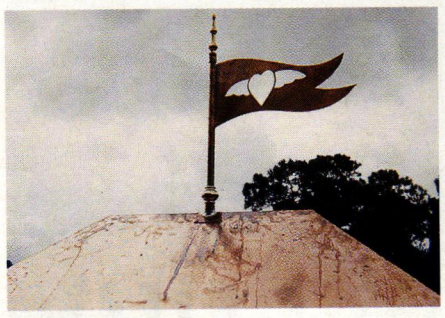
DeAngelis Iron Work, Inc.
888-676-4766; Fax: 508-238-7757
www.deangelisiron.com
South Easton, MA 02375
Custom fabricator & installer of ornamental metalwork: fences, gates, columns, capitals, benches & more; cast & wrought iron, bronze, brass, aluminum, stainless steel & more.
Write in No. 1023

Durable Slate Co., The
800-666-7445; Fax: 614-299-7100
www.durableslate.com
Columbus, OH 43201
Contractor providing historic restoration: slate, tile & metal roofing; exterior metal ornament; restoration of masonry, monuments, doors, windows, interiors, steeples, spires & cupolas; Midwest, East & South regions; since 1986.
Write in No. 3720

The Durable Slate Company restored this pre-Civil War-era mansion, now the Decorative Arts Center of Ohio, including the standing-seam and hand-soldered flat-seam copper roof on the main building and the slate roof on the carriage house.

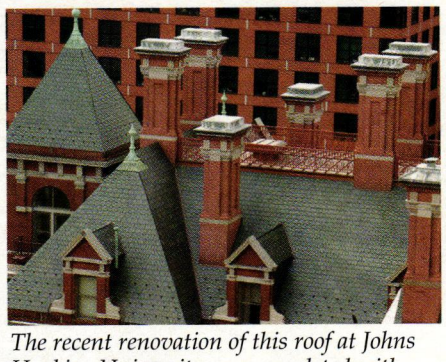
Dyn Collector Heads, Inc.
918-344-2306; Fax: 918-352-2079
www.dynheads.com
Mannford, OK 74044
Manufacturer of aluminum & copper leader boxes: available nationwide.

EJMcopper, Inc.
877-447-0074; Fax: 407-447-0075
www.ejmcopper.com
Orlando, FL 32826
Custom fabricator of copper products: cupolas, dormers, weathervanes, finials, vents, chimney caps & more.
Write in No. 1377



The Flying Heart weathervane is one of many models available from EJMcopper.

Evergreen Slate Co.
518-642-2530; Fax: 518-642-9372
www.evergreenslate.com
Granville, NY 12832
Supplier of natural roofing slate from Vermont & Wales: all colors, sizes & thicknesses; matches any roof slate for repair & additions; architectural service & tools, including hinged ridge vent; flooring & structural slate.



The recent renovation of this roof at Johns Hopkins University was completed with slate supplied by Evergreen Slate.

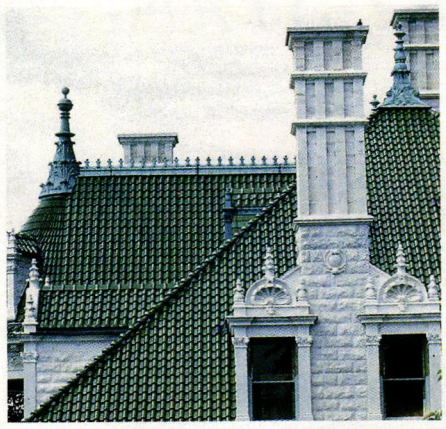
Fiberglass Specialties, Inc.
800-527-1459; Fax: 903-657-2318
www.fsiweb.com
Henderson, TX 75653
Manufacturer of FRP steeples, domes & cupolas: dozens of stock sizes & components; fiberglass & custom baptismal fonts; columns & balustrades; design department assists with custom requirements.
Write in No. 7310

Florentine Craftsmen, Inc.
800-876-3567; Fax: 718-937-9858
www.florentinecraftsmen.com
Long Island City, NY 11101
Manufacturer of garden ornament & other ornamental metalwork & stonework: freestanding & wall-mounted fountains, statuary, urns, planters, wrought-iron gazebos, furniture & more; weathervanes; cast stone, cast aluminum & lead.
Call for more information.

GAF Materials Corp.
973-628-3000; Fax: 973-628-3865
www.gaf.com
Wayne, NJ 07470
Manufacturer of Timberline fiberglass-asphalt shingles with wood look: Slateline imitation-slate shingles; Country Mansion shingles with natural-stone or slate look; Grand Slate & Camelot shingles with a slate look.
Write in No. 1534 for Grand Slate; 1535 for Country Mansion; 1636 for Camelot; 2222 for Slateline; 9270 for Country Estates

GAF Materials offers a wide variety of roofing products, including these western shake-look shingles.

Gladding, McBean—
Div. of Pacific Coast Bldg.
800-776-1133; Fax: 916-645-1723
www.gladdingmcbean.com
Lincoln, CA 95648
Manufacturer of sculptural ornamentation, machine-extruded terra cotta, roof tile, chimney tops, pavers, garden pottery & vitrified sewer pipes: terra-cotta columns, balustrades, copings, cornices & more; custom glaze development.
Write in No. 6010 for terra cotta; 1705 for tile



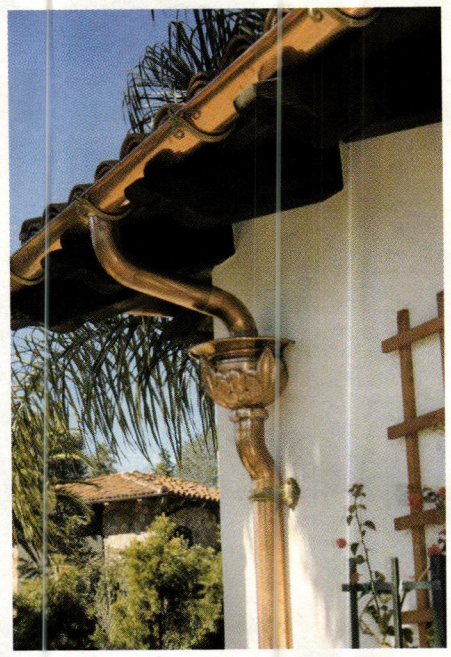
Gladding, McBean supplied the custom-glazed clay tile for the roof of Morrison Hall at Orange County Community College in Middletown, NY.

Glass Houses c/o
Haddonstone (USA) Ltd.
856-931-6336; Fax: 856-931-0040
www.glasshouses.com
Bellmawr, NJ 08031
Manufacturer of conservatories, orangeries & pool houses: individually designed & detailed; integrated design & construction services by qualified architects.
Write in No. 1600

Goodwin Associates
585-248-3320; Fax: 585-387-0153
www.goodwinassociates.com
Rochester, NY 14618
Supplier of architectural products: cornice moldings, columns, capitals, balustrades, door & window surrounds, ceiling medallions, niches, domes, brackets, corbels, mantels & more; polyurethane, FRP & hardwood millwork.
Write in No. 806

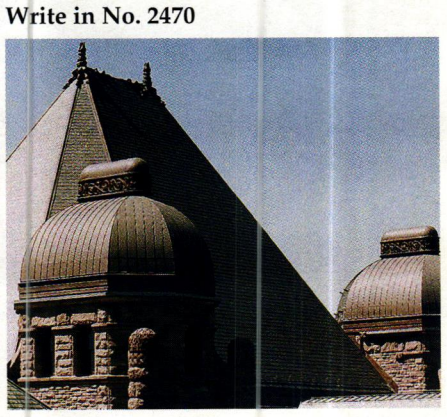
GT Products, Inc.
516-625-1870; Fax: 516-625-1226
www.geotechproduct.com
Mineola, NY 11501
Supplier of snowguards: 2-pipe, 3-pipe & Gothic style; Spanish-tile snowguards; snowguards for slate & metal roofs (standing-seam & other), slate cutters, rippers & hammers.
Write in No. 1026

Hans Liebscher Custom
Copperworks & Sheet Metal
760-471-5114; Fax: 760-471-7884
www.hanscopper.com
San Marcos, CA 92079
Fabricator of custom copper & lead leader heads, weathervanes, spires, finials & ornament: stock patterns or client's specifications; smooth-drawn horizontal gutters; twisted or fluted downspouts; copper roofing; on-site consulting.
Write in No. 1038



This ornamental downspout was custom fabricated by Hans Liebscher.

Heather & Little, Ltd.
800-450-0659; Fax: 905-475-9764
www.heatherandlittle.com
Markham, ON, Canada L3R 0H1
Fabricator & supplier of sheet-metal roofing & specialty architectural sheet metal: finials, cornices, leader heads, cresting, canopies, shingles, siding, cupolas, steeples, domes & snowguards; reproductions; custom bronze windows.
Write in No. 2470



Heather & Little supplied the curved copper domes and ornate copper cupolas for this legislative building in Ontario, Canada.

Historical Arts & Casting, Inc.
800-225-1414; Fax: 801-280-2493
www.historicalarts.com
West Jordan, UT 84088
Designer & custom fabricator of ornamental metalwork: doors, windows, hardware, stairs, balustrades, registers, fences, lighting, gutters, columns, weathervanes, planters & more; iron, bronze, aluminum & steel; restoration services.
Write in No. 1210

Kenneth Lynch & Sons, Inc.
203-762-8363; Fax: 203-762-2999
www.klynchandsons.com
Wilton, CT 06897
Manufacturer of ornamental metalwork & cast-stone products: planters, urns, benches, fountains, statuary, topiary, sundials & weathervanes; cast stone, cast & wrought iron, lead & bronze; stock & custom designs.
Call for more information.

90 West Street - New York, NY
Architect/Engineer: Facade Maintenance Design
Contractor: Seaboard Weatherproofing & Restoration Company

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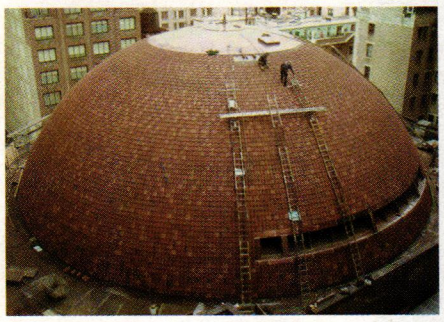
Kronenberger & Sons Restoration
860-347-4600; Fax: 860-343-0309
www.kronenbergersons.com
Middletown, CT 06457
Contractor for interior & exterior restoration: all types of finishes; post-&-beam construction; windows, molding & roofing; masonry & wood; museums, churches, town halls, libraries, barns, period homes & outbuildings.
Write in No. 536

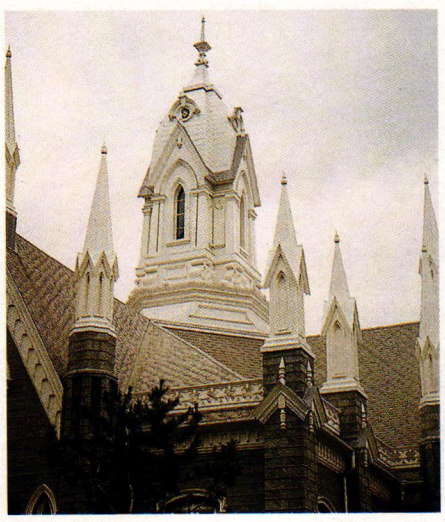
Ludowici Roof Tile, Inc.
800-945-8453; Fax: 740-342-5175
www.ludowici.com
New Lexington, OH 43764
Manufacturer of clay tile roofing: many patterns, finishes & colors; Imperial ceramic slate tile; good freeze/thaw properties; low moisture absorption; 75-year limited warranty; restoration & new construction.
Write in No. 2760



The dome of the New York City Center was originally finished in Ludowici Roof Tile in 1923; it was restored with roof tile from the same company in 2004.

Michigan Ornamental Metals
201-945-4930; Fax: 201-945-4931
www.michiganornamental.com
Ridgefield, NJ 07657
Custom fabricator of metal ornament: columns, capitals, rosettes, wreaths, cornices & ceilings; cupolas, domes, gutters, finials, leaders & leader boxes; stamped/pressed sheet metal; replications & historic reproductions.
Write in No. 9520

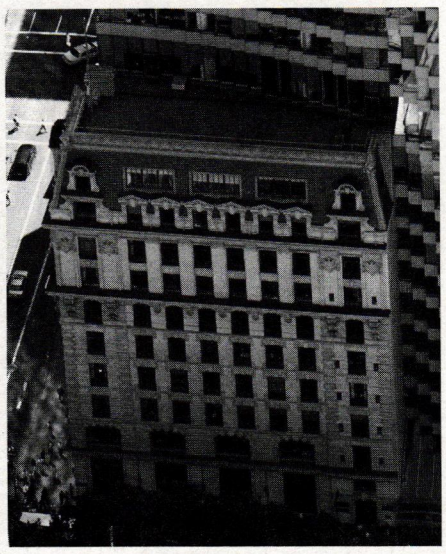
Mueller Ornamental Iron Works, Inc.
847-758-9941; Fax: 847-758-9945
www.ornamentaliron.net
Elk Grove Village, IL 60007
Designer & fabricator of ornamental metalwork: doors, fences, gates & stairs; cast iron, forged steel, stainless steel, aluminum & bronze; restoration services; custom work.
Write in No. 229



Munns Mfg. restored the steeple on the Assembly Hall in Salt Lake City, UT.

Munns Mfg., Inc.
435-257-5673; Fax: 435-257-3842
www.munnsmfg.com
Garland, UT 84312
Manufacturer of aluminum steeples, pinnacles, spires, cupolas & towers: variety of styles & designs; weathervanes optional; custom copper & aluminum dormers.
Write in No. 1356

Nicholson & Galloway
516-671-3900; Fax: 516-759-3569
www.nicholsonandgalloway.com
Glen Head, NY 11545
Full-service exterior facade restoration contractor: flat, slate, tile & metal roofing; brick, stone, concrete restoration; cupolas & domes of all metals; chimney restoration.
Write in No. 3067

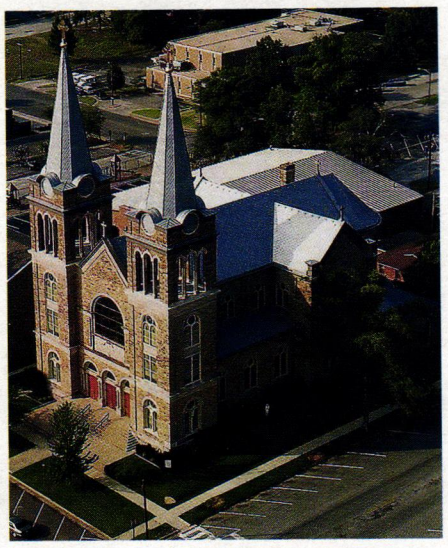


Nicholson & Galloway restored the slate roof, copper cornice and brick and limestone façades of this building.

NIKO Contracting Co., Inc.
412-687-1517; Fax: 412-687-7969
www.nikocontracting.com
Pittsburgh, PA 15213
Custom fabricator & contractor of sheet metal & roofing: slate, tile & other roofing; storefronts, cornices, cupolas, domes, steeples, snowguards & leader heads; copper, lead-coated copper, zinc & stainless steel; metal ceilings.
Write in No. 8300

NIKO Contracting installed the batten-seam and flat-lock copper roof of the Kingswood School in Bloomfield Hills, MI.

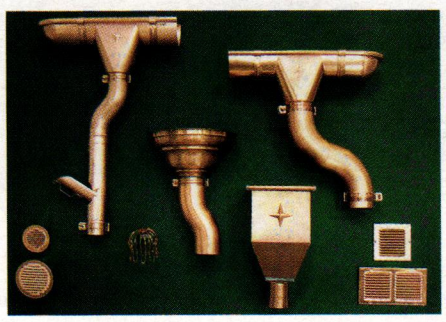
No 9 Studio UK
011-44-1769-5404-71;
Fax: 011-44-1769-5408-64
www.no9uk.com
Umberleigh, Devon, UK
Manufacturer of terra-cotta architectural elements: chimney pots, sculptural fountains & garden furnishings/ornament; ceramic tile & clay tile roofing; cupolas, finials & vents; special bricks & features; restoration services.
Write in No. 1672



Zinc Rauten Interlocking Tiles from Ornametals were installed on the roof of the Sacred Heart of Jesus Catholic Church in Cullman, AL.

Ornametals, LLC
256-350-7410; Fax: 256-309-5921
www.ornametals.com
Decatur, AL 35601
Fabricator & distributor of metal roofing & roof ornament: finials, cupolas, crosses, weathervanes, gutters, leader boxes & more; exterior balustrades & cornices; copper & zinc.
Write in No. 5025

Park City Rain Gutter
435-649-2805; Fax: 435-649-2605
www.pcraingutter.com
Park City, UT 84068
U.S. distributor of Minoletti half-round gutter products: gutter & downspout brackets, spherical end caps, miter corners, smooth downspout elbows, yoke-style outlets, leader heads, grille vents & rain chains; copper & zinc.
Write in No. 957



Park City Rain Gutter imports Minoletti traditional rain-gutter products.

Reflection Studios
510-652-4884; Fax: 510-658-6138
www.reflectionstudios.com
Emeryville, CA 94608
Designer, fabricator & installer of fine art glass: commercial, ecclesiastical & residential; conservation & restoration of historic stained glass; design, construction & renovation of stained-glass domes & ceilings.
Write in No. 7930

The glass dome at the Pacific County Courthouse in South Bend, WA, was designed and fabricated by Reflection Studios.

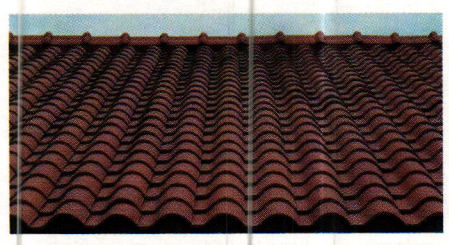
Reliance Specialty Building Products
800-697-4705; Fax: 509-466-8833
www.reliancesbp.com
Spokane, WA 99218
Supplier of kiln-dried & green timbers, flooring, decking, siding, bridge timber, poles, millwork & moldings: Douglas fir, cedar, larch, hemlock, white fir, Oregon oak, pine, aspen & birch.
Write in No. 1403

Renaissance Conservatories
800-882-4657; Fax: 717-661-7727
www.renaissanceconservatories.com
Leola, PA 17540
Designer, manufacturer & installer of traditional conservatories, contemporary sunrooms, greenhouses, pool enclosures, skylights, roof lanterns & garden windows: handcrafted mahogany & cedar components; custom designs.
Write in No. 378

Rutland Gutter Supply
407-859-1119; Fax: 407-859-1123
www.rutlandguttersupply.com
Orlando, FL 32824
Manufacturer of roof drainage systems: copper gutters, leader heads, chimney caps, finials, soffit vents, elbows, miters, pipes, end caps & copper balls.
Write in No. 1609

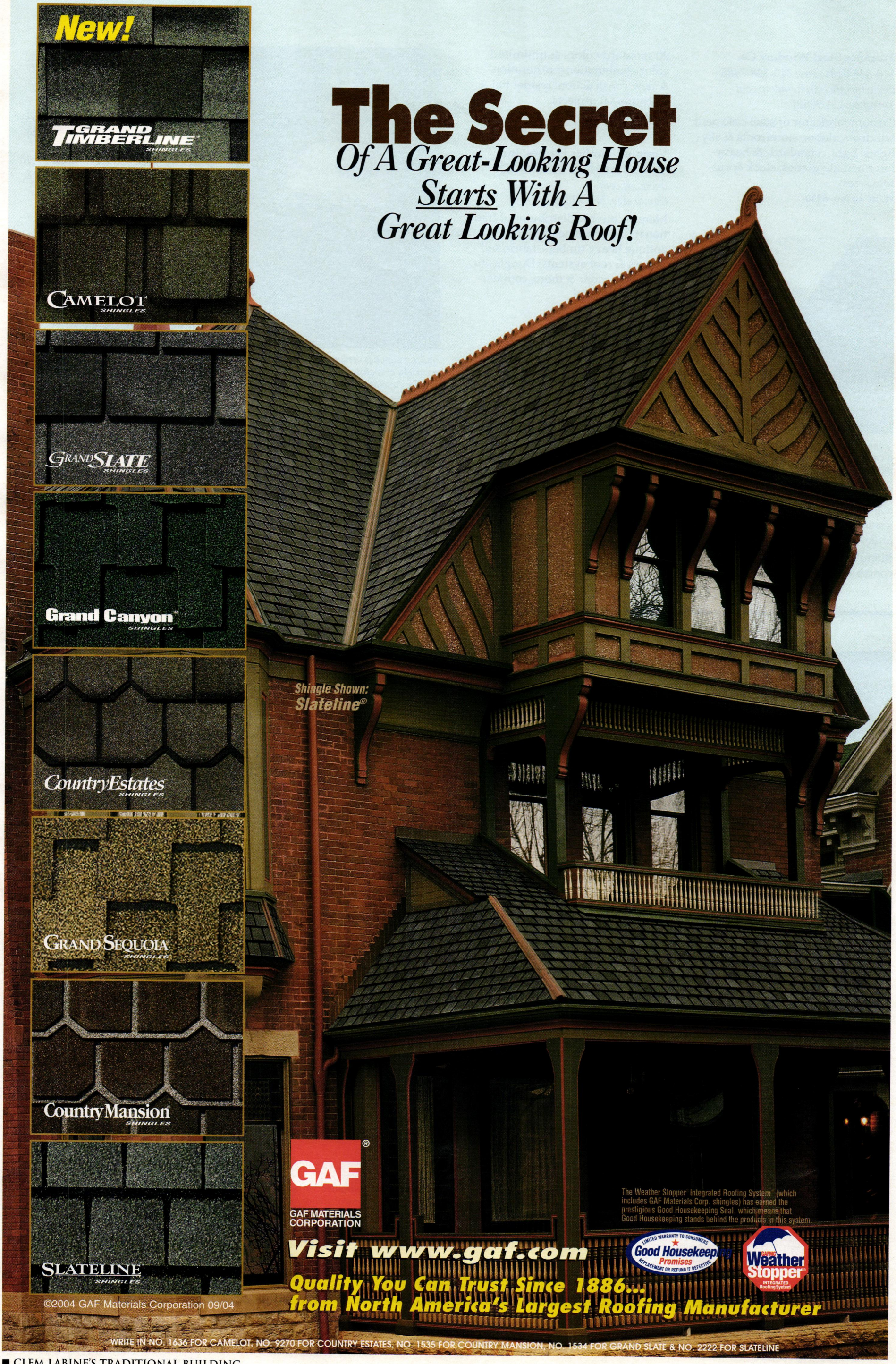
Signon USA
866-744-6661; Fax: 718-485-8400
www.signonusa.com
Brooklyn, NY 11212
Supplier of ornamental metal stair parts, stair railings, fences & gates: Classical & contemporary designs; works with architects, designers, blacksmiths & homeowners; door hardware; curtain rods.
Write in No. 191

Tanglewood Conservatories
410-479-4700; Fax: 410-479-4797
www.tanglewoodconservatories.com
Denton, MD 21629
Manufacturer of handcrafted conservatories, greenhouses, gazebos, roof lanterns & pool enclosures: Honduras mahogany; custom designs; fully engineered with stamped shop drawings; storefronts.
Write in No. 8270



Tile Roofs supplies salvaged roofing tile for new construction and renovation projects.

Tile Roofs, Inc.
888-708-8453; Fax: 708-479-7865
www.tileroofs.com
Frankfort, IL 60423
Supplier of salvaged clay tile & slate roofing: large quantities for new roofing; tile matching; restoration & repairs.
Write in No. 4570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Torrance Steel Window Co.
310-328-9181; Fax: 310-328-7485
www.torrancesteelwindow.com
Torrance, CA 90501

Custom fabricator of steel casement windows, doors, storefronts & skylights: light-, standard- & heavy-intermediate grades; stock & custom sizes.
Write in No. 8330

Vande Hey-Raleigh produces roofing tile for a variety of styles for commercial and residential projects.

Vande Hey-Raleigh Mfg.
800-236-8453; Fax: 920-766-0776
www.vrmtile.com
Little Chute, WI 54140

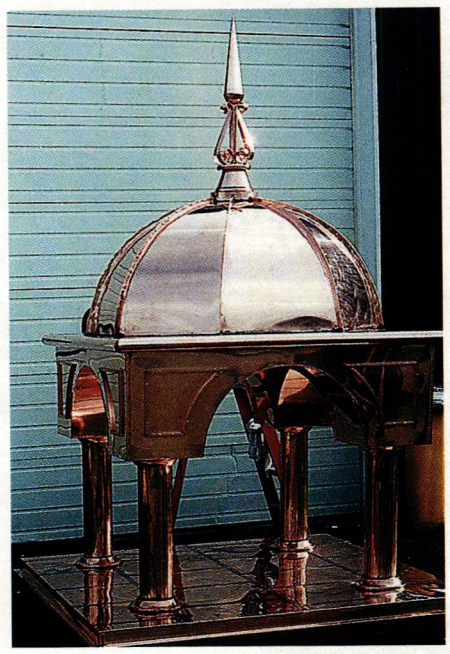
Manufacturer of architectural concrete roofing tile: 9 styles, 20 standard colors & unlimited color combinations; restoration & new construction; residential & institutional projects.
Write in No. 2840

Vermont Timber Frames, Inc.
518-677-8860; Fax: 518-677-3626
www.vtf.com
Cambridge, NY 12816

Manufacturer & distributor of traditional timber-frame products: antique heavy timbers, fabricated trusses & roof systems; Douglas fir, pine, oak, cedar & more; commercial & residential.
Write in No. 8540

Vermont Timber Works, Inc.
802-886-1917; Fax: 802-886-6188
www.vermonttimberworks.com
North Springfield, VT 05150

Custom fabricator of timber frames & trusses: fir, oak, pine & hemlock; traditional mortise-&-tenon joinery & hardwood pegs; residential & commercial buildings.
Write in No. 927



Vulcan supplies ornamental sheetmetal for a variety of roofing applications, including finials, cupolas, weathervanes and more.

Vulcan Supply Corp.
802-893-0512; Fax: 802-893-0534
www.vulcansupply.com
Westford, VT 05494

Supplier of ornamental sheet metal: finials, weathervanes, cornices, cupolas, roof vents, leader boxes, fountains, garden ornament & more; historical replications; custom & stock.
Write in No. 7212

W.F. Norman Corp.
800-641-4038; Fax: 417-667-2708
www.wfnorman.com
Nevada, MO 64772

Manufacturer of sheet-metal ornament: hundreds of stock designs; cornices, moldings, brackets, pressed-metal ceilings, roofing, siding, finials & more; zinc, copper & lead-coated copper; duplication from samples or drawings.
Write in No. 520

Watertrol, Inc.
908-389-1690; Fax: 908-389-9480
www.watertrolinc.com
Scotch Plains, NJ 07076

Restorer of exterior masonry & terra cotta: reconstruction, structural stabilization, specialty roofing, exterior building cleaning & specialty anchoring.
Write in No. 218

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www.santafetile.com

Santafé

Clay Roof Tiles and Pavers

Our Business

Santafé has been a leader in the clay products industry for the past half century and is currently the largest producer in the Americas. Located in the outskirts of Bogotá Colombia, Santafé operates from 8 manufacturing plants that produce a diverse product line, from Structural brick, façade brick and pavers to several profiles of roof tiles, from the traditional to the contemporary.

Through a system of company warehouses and Distribution networks, Santafé products reach customers throughout Central and South America, The Caribbean and most major markets in the United States.

Our Quality

Santafé insists that quality be the main priority throughout the entire production process. This begins with the high quality raw materials available from our mines in Colombia. From carefully selecting the clays in the mines, their grinding operations and careful monitoring of the kiln temperatures, our specially trained technicians control all phases of manufacture to ensure the same impeccable finishes time after time.

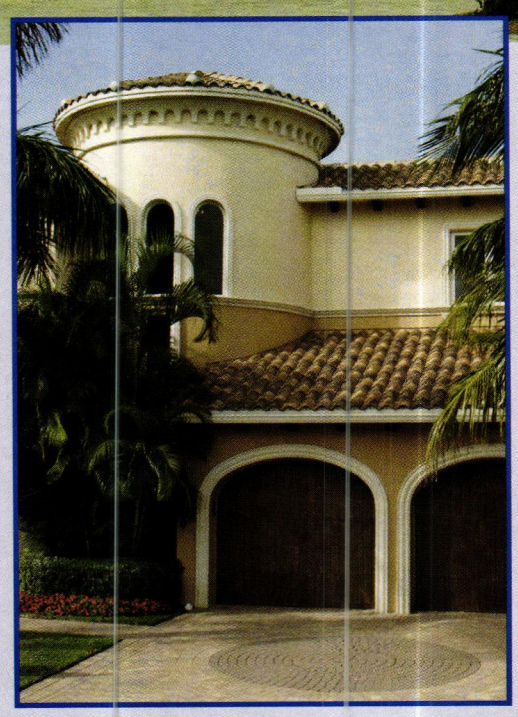
Clay products retain their vibrant color over time, unlike other building materials. Santafé clay products, because of their production process, have very low absorption and very high strength that provides higher resistance to mildew and staining caused by environmental factors. Santafé roof tiles are lighter in weight and a perfect replacement option for shingle or concrete roofs.

Our color palette is one of the largest in the tile industry, with over 50 different colors available in natural clay, matte, and glazed finishes. Santafé will also develop custom colors for our customers who wish to be unique or exclusive with their tile color needs.

Our Commitment

Santafé's creativity and experience, combined with the latest technology and strict quality control standards allows us to guarantee the best combination of price and quality in the industry today. We back up this commitment with a 50 year, normal wear and tear warranty on our products.

When you purchase a Santafé product, it is backed by a company committed 100% to its customers.



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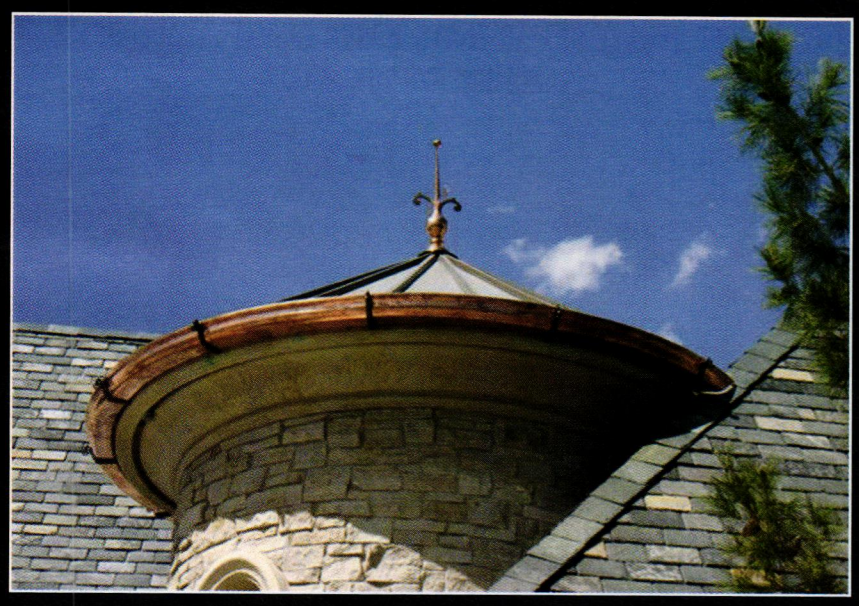

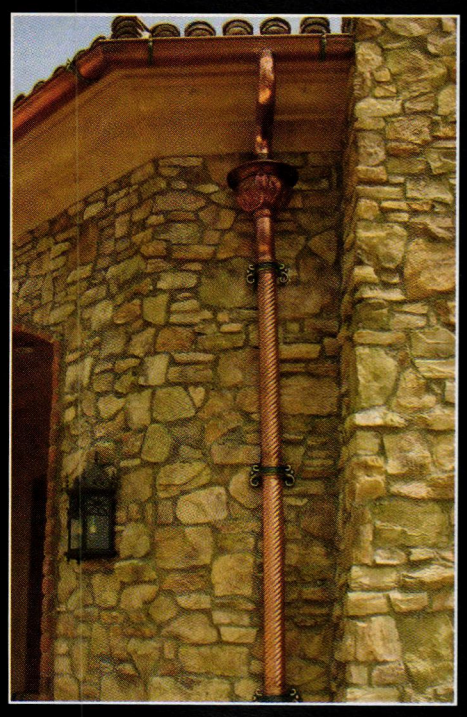

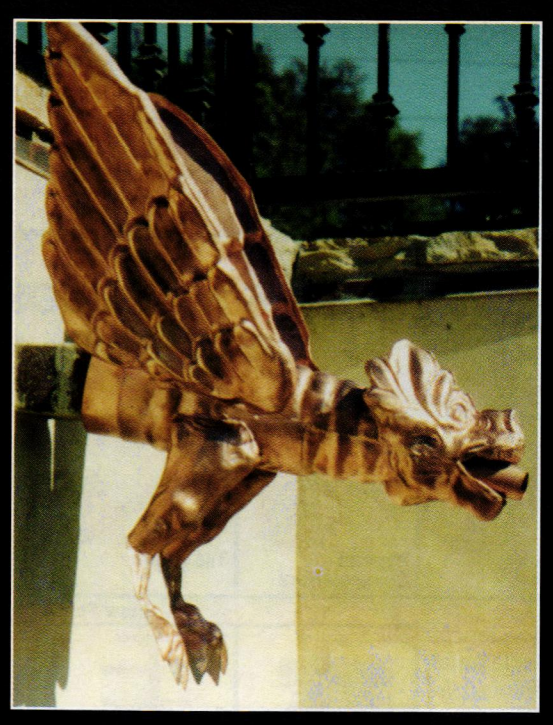

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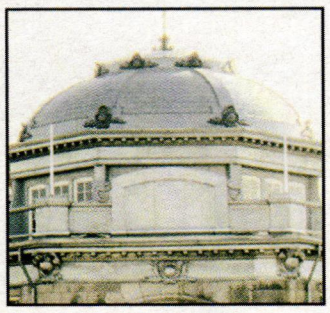

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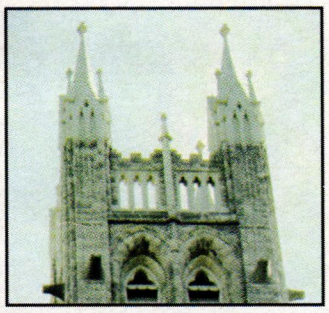

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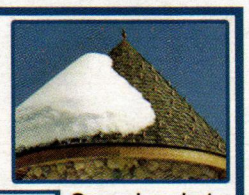

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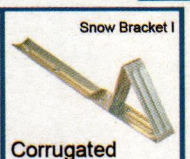

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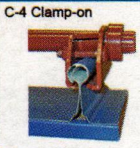

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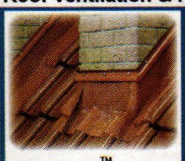

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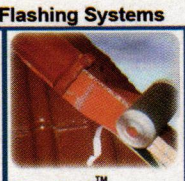

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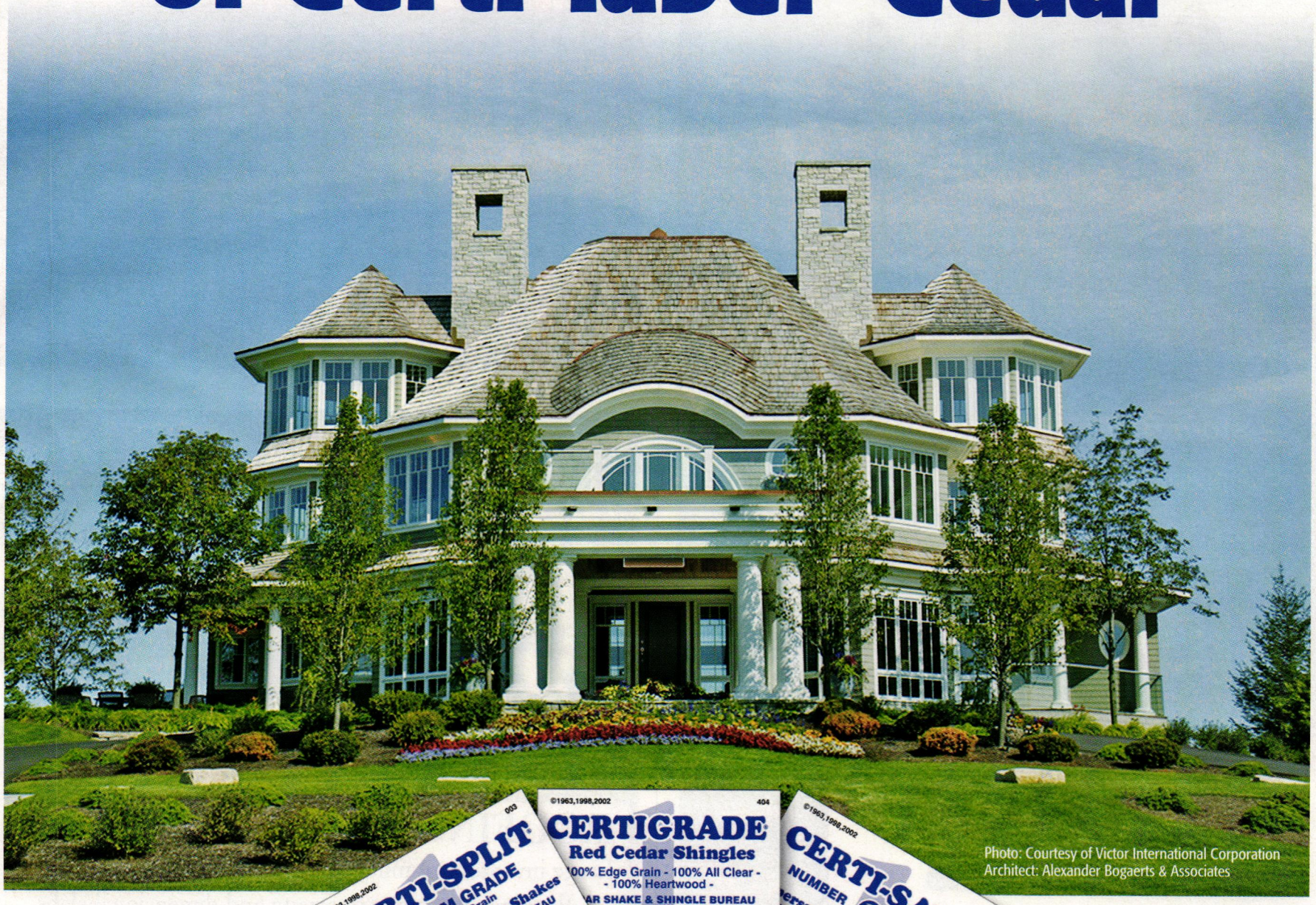

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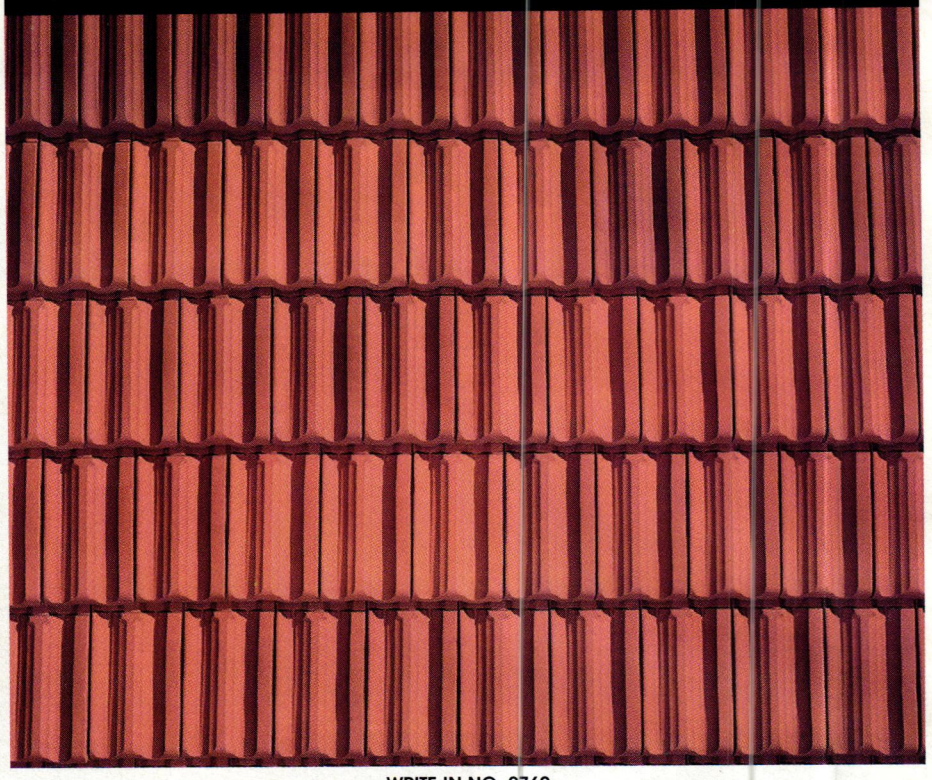

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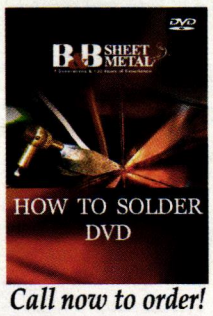

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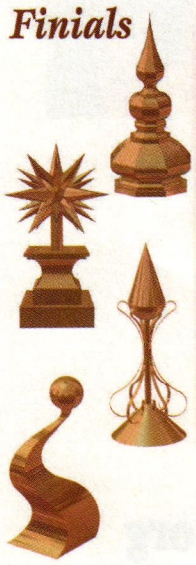

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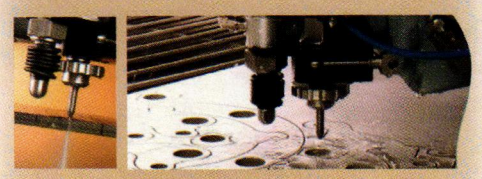

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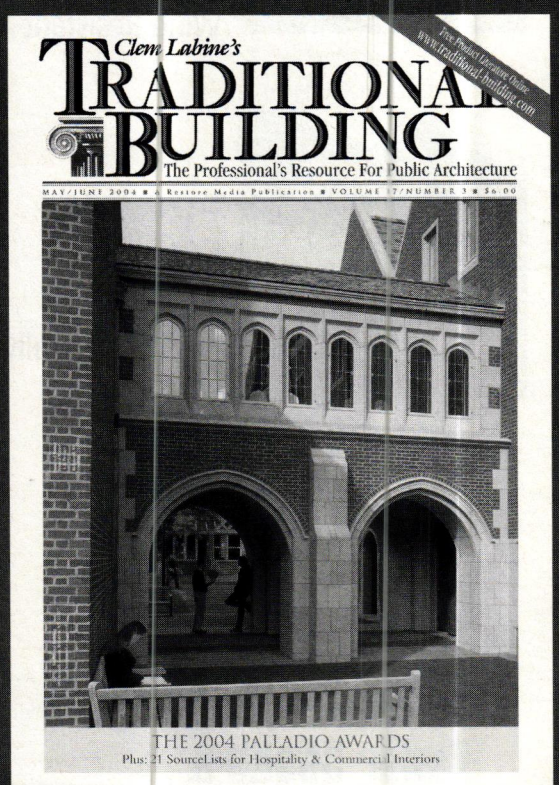

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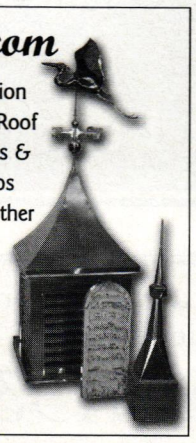

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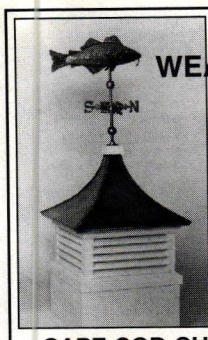

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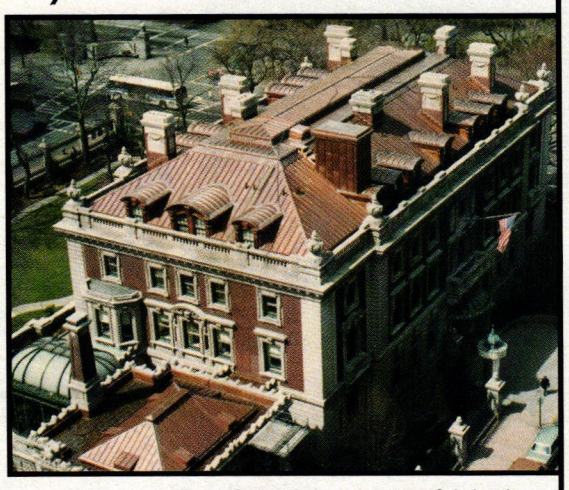

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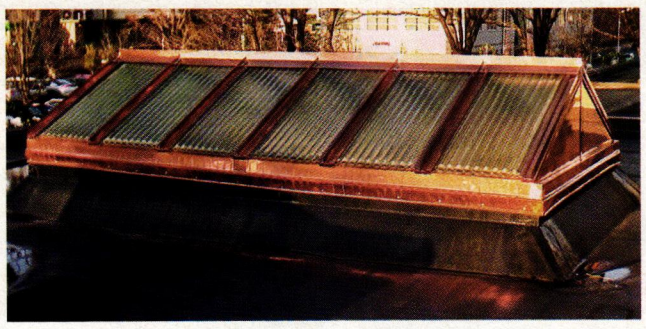

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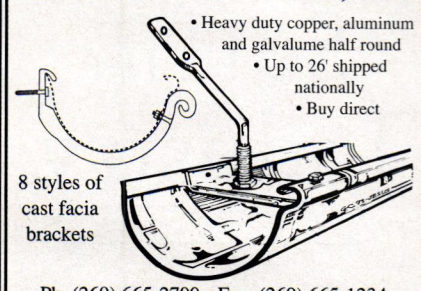

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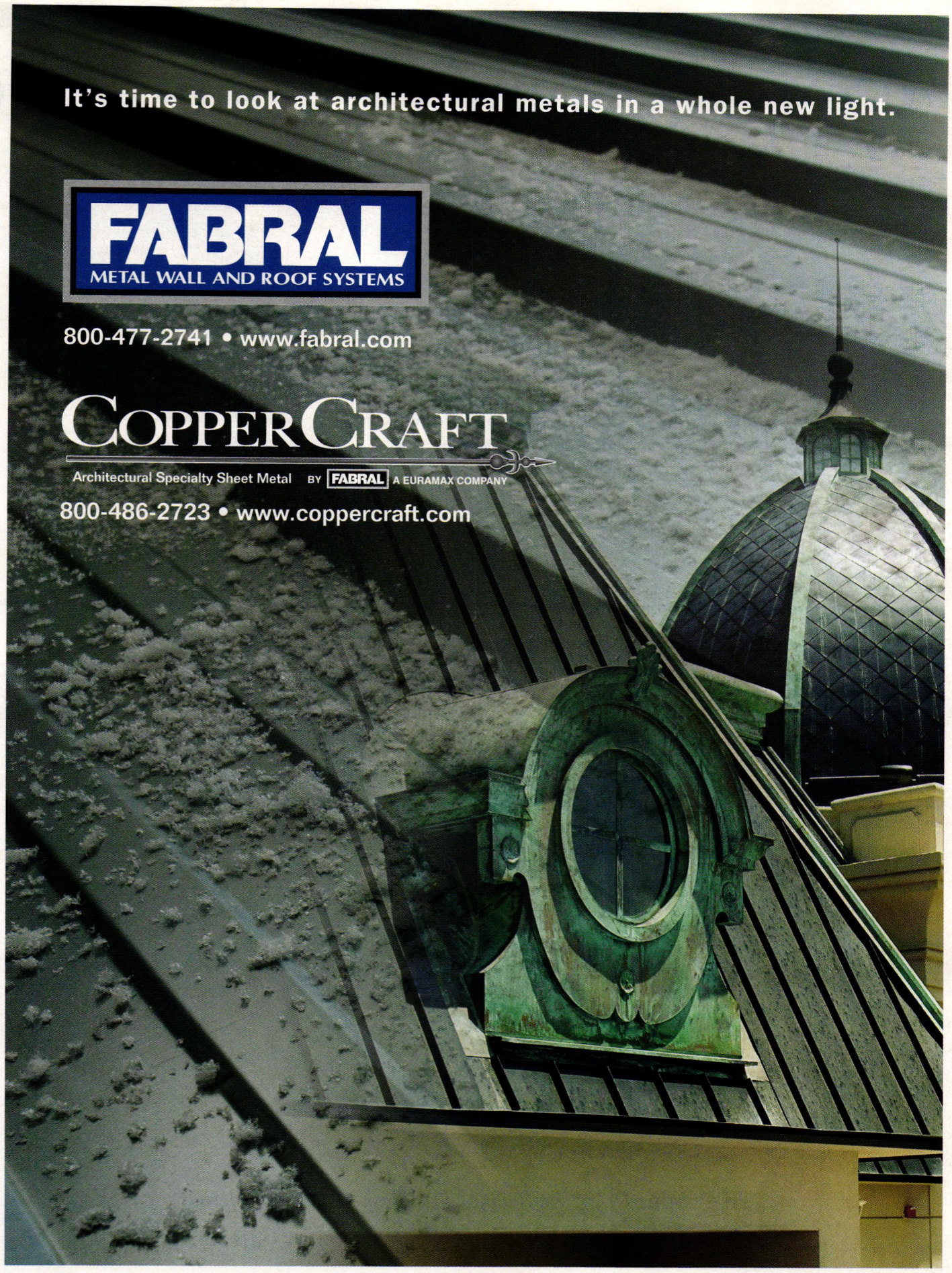

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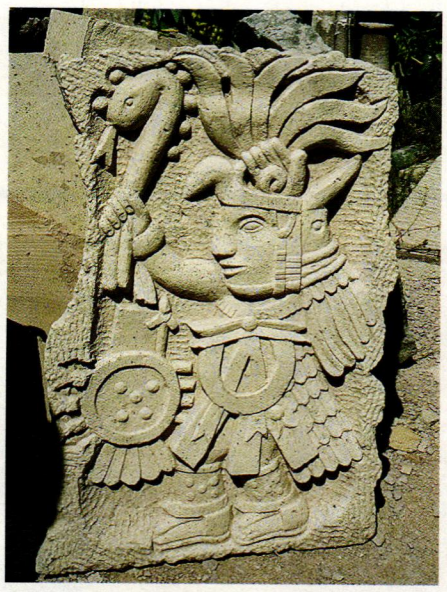

This relief piece from Cantera Especial was cut in Cantera stone.

Champlain Stone, Ltd.
518-623-2902; Fax: 518-623-3088
www.champlainstone.com
Warrensburg, NY 12885
Manufacturer of building & landscaping stone & stone flooring: guillotined & hand-split granite, quartzitic sandstone & limestone; for fireplaces, building veneer, wall stone, flagging, paving, step slabs & retaining walls.
Write in No. 4270

The Great Meadow limestone for this wall was provided by Champlain Stone.

Florentine Craftsmen, Inc.
800-876-3567; Fax: 718-937-9858
www.florentinecraftsmen.com
Long Island City, NY 11101
Manufacturer of garden ornament & other ornamental metalwork & stonework: freestanding & wall-mounted fountains, statuary, urns, planters, wrought-iron gazebos, furniture & more; weathervanes; cast stone, cast aluminum & lead.
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www.geraldsicilianostudio.com
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800-776-1133; Fax: 916-645-1723
www.gladdingmcbean.com
Lincoln, CA 95648
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Write in No. 6010

Haddonstone manufactured the stone gate piers for this wall.

Haddonstone (USA), Ltd.
856-931-7011; Fax: 856-931-0040
www.haddonstone.com
Bellmawr, NJ 08031
Manufacturer of Classical stonework: columns, balustrades, benches, planters, urns, pavers, fountains, gazebos, mantels, statuary & more; cast, reconstructed limestone resembling Portland stone; more than 500 designs.
Write in No. 4020

Kenneth Lynch & Sons, Inc.
203-762-8363; Fax: 203-762-2999
www.klynchandsons.com
Wilton, CT 06897
Manufacturer of ornamental metalwork & cast-stone products: planters, urns, benches, fountains, statuary, topiary, sundials & weathervanes; cast stone, cast & wrought iron, lead & bronze; stock & custom designs.
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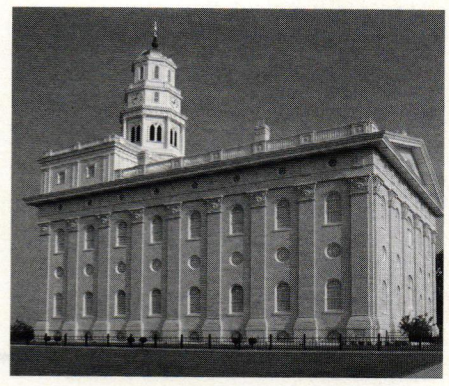
Salt Lake City, UT 84104
Custom fabricator & installer of architectural cladding systems: columns, capitals, balustrades, commercial building facades & storefronts; natural stone, tile & terra cotta; commercial, institutional & religious buildings.
Write in No. 1492



Kepco+ installed the architectural stone-cladding system of Alabama limestone for the Nauvoo Temple in Nauvoo, IL.

New England Cast in Stone
802-885-7866; Fax: 802-885-7870
www.newenglandcastinstone.com
Springfield, VT 05156
Manufacturer of architectural precast elements: fountains, mantels, planters, statuary, garden ornament & more; restoration work; commercial & residential projects.
Write in No. 1792

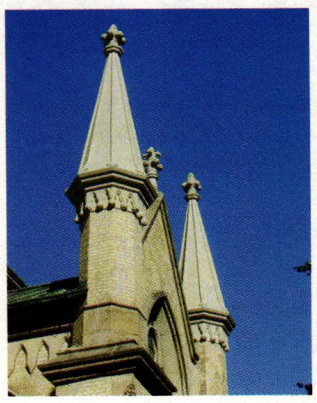
No 9 Studio UK
011-44-1769-5404-71;
Fax: 011-44-1769-5408-64
www.no9uk.com
Umberleigh, Devon, UK EX379HF
Manufacturer of terra-cotta architectural elements: chimney pots, sculptural fountains & garden furnishings/ornament; ceramic tile & clay tile roofing; cupolas, finials & vents; special bricks & features; restoration services.
Write in No. 1672

Old Carolina Brick Co.
704-636-8850; Fax: 704-636-0000
www.handmadebrick.com
Salisbury, NC 28147
Manufacturer of handmade brick, pavers, arches & special shapes: custom & stock designs; restoration consulting & matches.
Write in No. 3130

Shaws of Darwen
800-419-9183; Fax: 609-799-1862
www.shawsofdarwen.com
West Windsor, NJ 08550
Manufacturer of terra-cotta elements: complete survey & CAD design services for replacement of hand-molded ornament using glazed & unglazed terra cotta; color matching.

The restoration of the Wrigley Building in Chicago IL, utilized architectural terra-cotta produced by Shaws of Darwen.

Traditional Cut Stone, Ltd.
416-652-8434; Fax: 905-673-8434
www.traditionalcutstone.com
Mississauga, ON, Canada L5S 151
European master carver: architectural ornamentation & monumental statuary; restoration; historical reproduction in limestone, sandstone & marble; stone design with clay & plaster models; hand-drawn renderings.
Write in No. 2902



Traditional Cut Stone replaced the pinnacles on St. James Cathedral in Toronto.

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www.wassmerstudios.com
Kansas City, MO 64116
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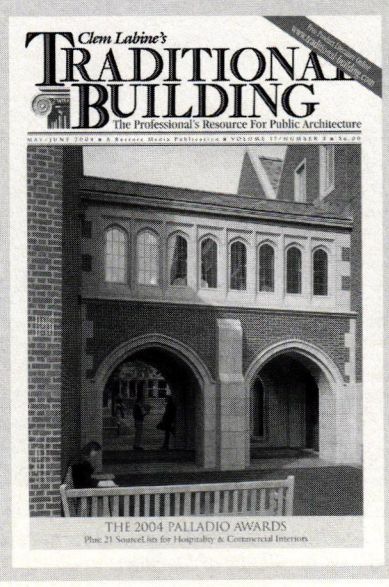

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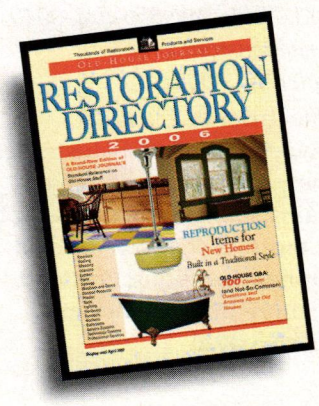

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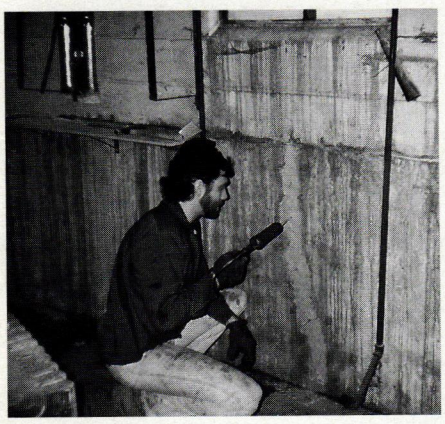

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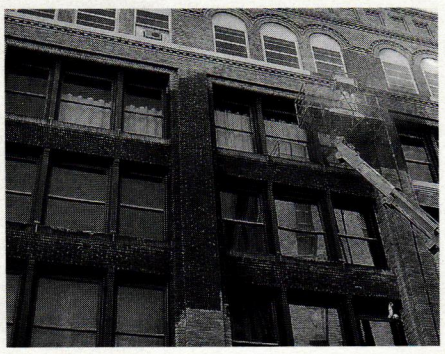

Armex blast media, a baking-soda-based abrasive from ArmaKleen, was used to clean this historic brick building.

ConSpec Associates, Inc.
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www.conspec-rep.com
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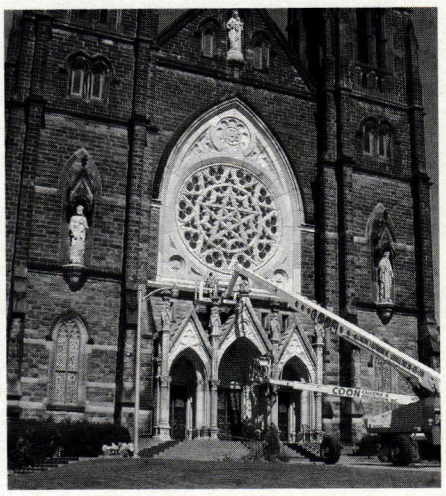

Coon Restoration & Sealants restored the exterior limestone façade, statues and rose window of St. Mary's Church of Massillon, Louisville, OH.

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800-542-2666; Fax: 330-875-1721
www.coonrestoration.com
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www.klenztone.com
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K&E Chemical's Klenztone # 1 was used to clean these floors after 30 years; in some places the grime was ¼ in. thick.

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www.kronenbergersons.com
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www.nawkaw.com
Watkinsville, GA 30677
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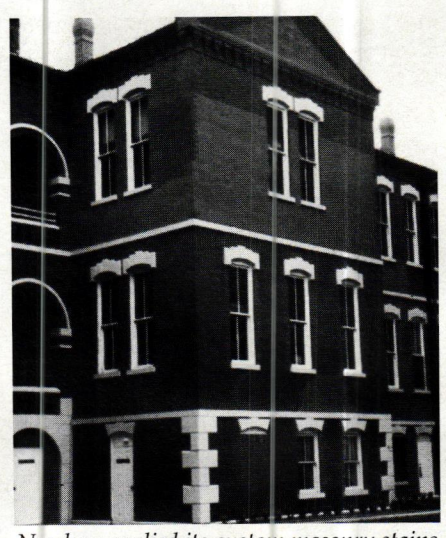

Nawkaw applied its custom masonry stains to blend in uneven brickwork on the Osceola County Courthouse in Florida.

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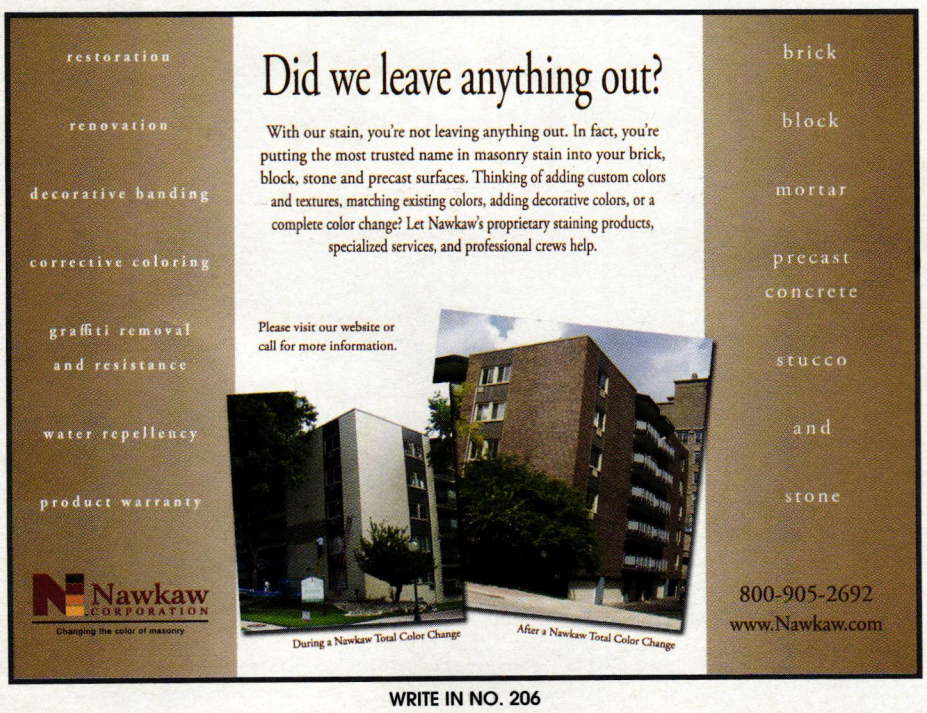

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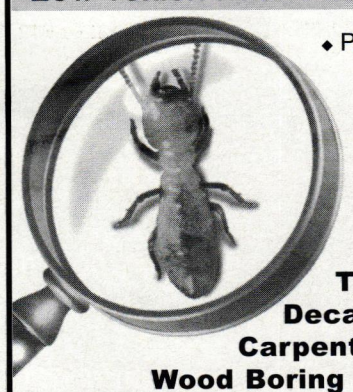
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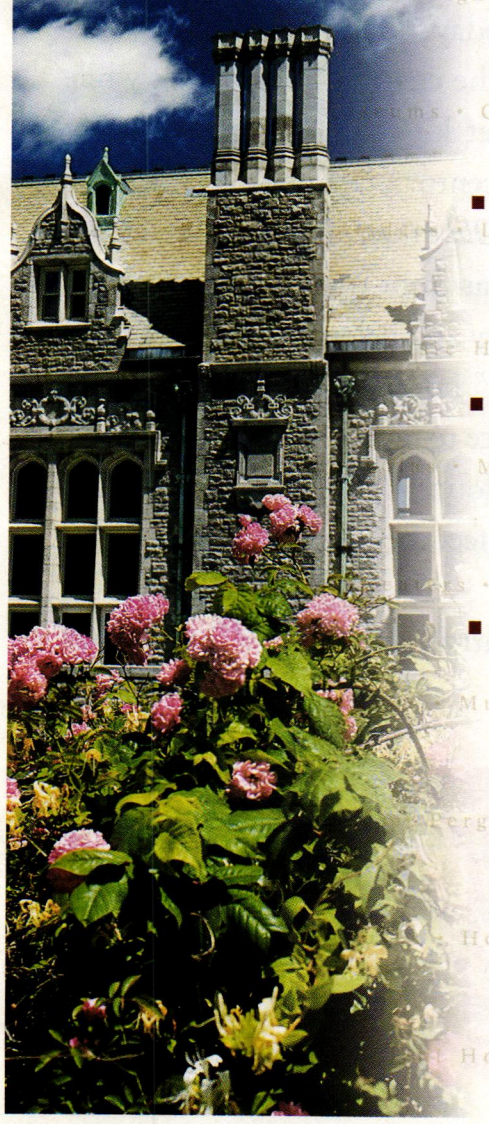

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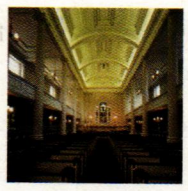

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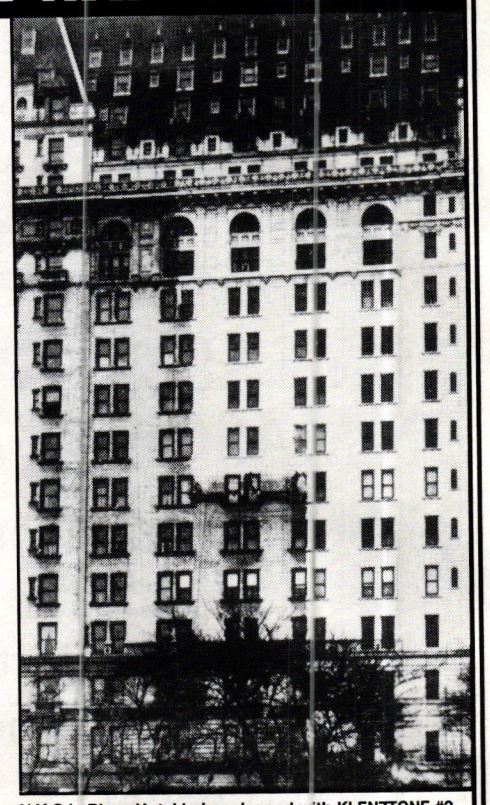

N.Y.C.'s Plaza Hotel being cleaned with KLENZTONE #2.

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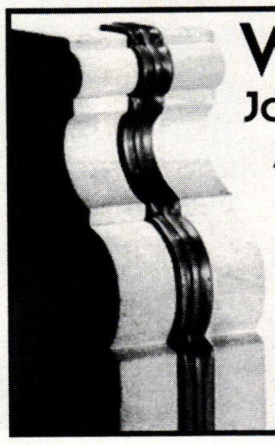

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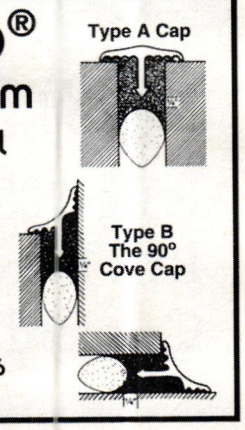

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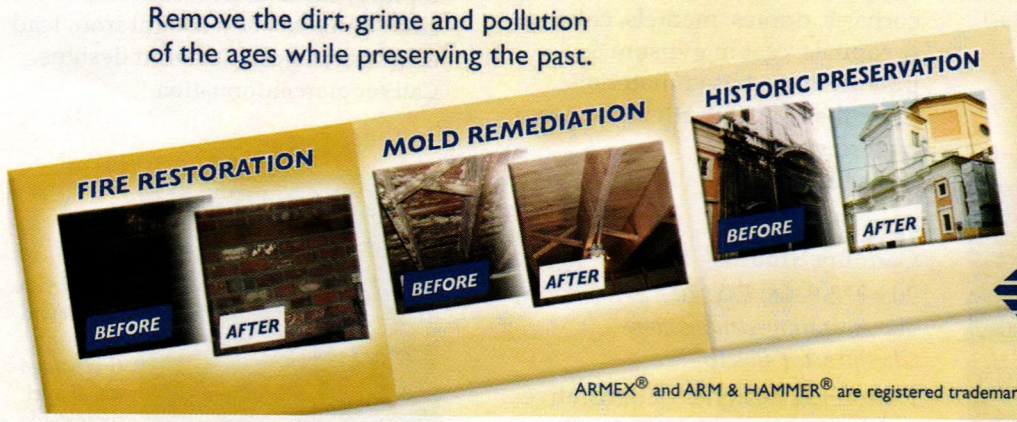

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MasterMold, supplied by Abatron, can be used to reproduce capitals, structural and decorative components, statuary and other patterns.

Architectural Fiberglass Corp.
800-439-2000; Fax: 631-842-4790
www.afcornice.com
Copiague, NY 11726
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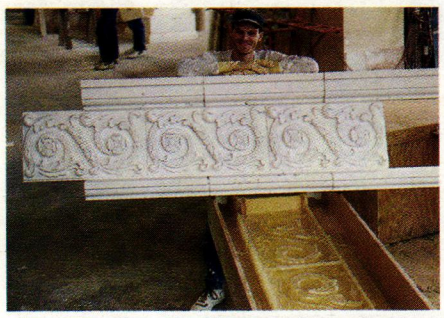
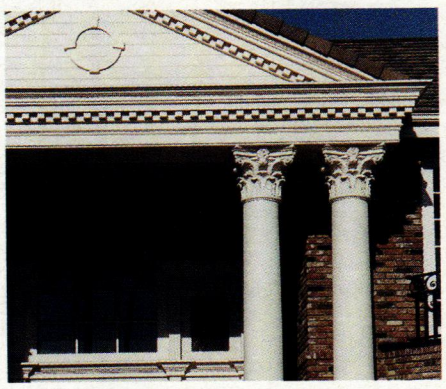


An artisan from Architectural Reproductions shows off his handiwork on an ornamental cornice.

Architectural Reproductions, Inc.
888-440-8007; Fax: 503-281-6926
www.archrepro.com
Portland, OR 97227
Custom fabricator of cast-stone facade & cornice elements: uses both traditional cement-based casting methods & lightweight GFRC techniques.
Write in No. 6130



Ball Consulting supplied the GFRC for producing this Neoclassical pediment and Corinthian columns.

Ball Consulting, Ltd.
724-266-1502; Fax: 724-266-1504
www.ball-consulting-ltd.com
Ambridge, PA 15003
Supplier of moldmaking materials & casting compounds: alginate, latex rubber, polyurethane & silicone for moldmaking; GFRC, gypsum, polymer-modified gypsum, plaster & polyurethane casting compounds; terra-cotta substitutes.
Write in No. 7260

Balmer Architectural Mouldings
416-491-6425; Fax: 416-491-7023
www.balmer.com
Toronto, ON, Canada M2J 1S5
Supplier & installer of moldings, cornices, domes, mantels, columns & capitals: cast in gypsum & polyurethane-based materials; more than 12,000 patterns; custom pattern making.
Write in No. 3159

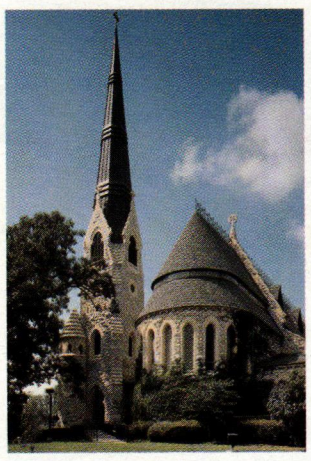
Canning Studios
203-272-9868; Fax: 203-272-9879
www.canning-studios.com
Cheshire, CT 06410
Restorer & designer of decorative finishes, ornamental plaster & wood: historic paint analysis; plaster consolidation & stabilization; decorative paint, murals, interior & exterior gilding, wood graining; metal & stone cleaning.
Write in No. 5100

Cantera Especial
800-564-8608; Fax: 818-907-0343
www.cantera-especial.com
Pacific Palisades, CA 90272
Manufacturer of hand-carved natural-stone products made from limestone, cantera, adoquin, travertine, marble & sandstone quarried in Europe & Mexico: fireplaces, fountains, columns, balustrades, molding, sculpture & custom work.
Write in No. 31

Cast Designs & Supply, LLC
931-685-0536; Fax: 931-685-0990
www.castdesignsupply.com
Shelbyville, TN 37162
Supplier of handcrafted ornamental & architectural products: molding, medallions, capitals, corbels, cartouches, panels, mantels & domes; reinforced plaster; custom restoration.
Write in No. 451

Florentine Craftsmen, Inc.
800-876-3567; Fax: 718-937-9858
www.florentinecraftsmen.com
Long Island City, NY 11101
Manufacturer of garden ornament & other ornamental metalwork & stonework: freestanding & wall-mounted fountains, statuary, urns, planters, wrought-iron gazebos, furniture & more; weathervanes; cast stone, cast aluminum & lead.
Call for more information.

Kenneth Lynch & Sons, Inc.
203-762-8363; Fax: 203-762-2999
www.klynchandsons.com
Wilton, CT 06897
Manufacturer of ornamental metalwork & cast-stone products: planters, urns, benches, fountains, statuary, topiary, sundials & weathervanes; cast stone, cast & wrought iron, lead & bronze; stock & custom designs.
Call for more information.

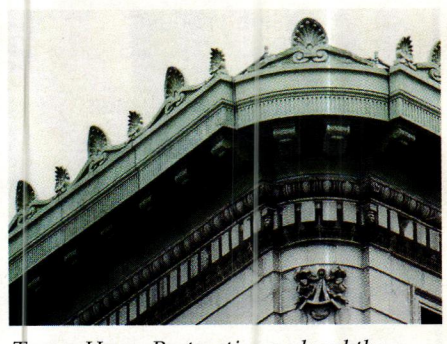


The precast panels and stones for this octagonal chapel were made with Lehigh White Cement.

Lehigh Cement Company, White Cement Div.
800-523-5488; Fax: 610-366-4638
www.lehighwhitecement.com
Allentown, PA 18195
Manufacturer of white cement: used in cast stone, precast, GFRC, architectural concrete masonry, stucco, tile grout & cast in place; for swimming pools, spas, ornament, concrete roof tile, terrazzo & infrastructure.
Write in No. 169

New England Cast in Stone
802-885-7866; Fax: 802-885-7870
www.newenglandcastinstone.com
Springfield, VT 05156
Manufacturer of architectural precast elements: fountains, mantels, planters, statuary, garden ornament & more; restoration work; commercial & residential projects.
Write in No. 1792

Towne House Restorations
718-497-9200; Fax: 718-497-3556
www.thrcaststone.com
Brooklyn, NY 11206
Manufacturer of molded ornament: columns, capitals, cornices, balustrades, sculpture & more; cast stone & GFRC; pattern restoration, color matching, field molds, field surveys, shop drawings & engineering; terra-cotta restoration.
Write in No. 545

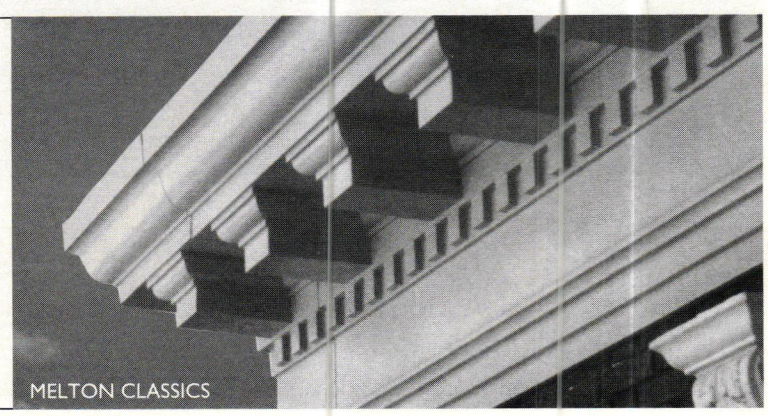


Towne House Restoration replaced the terra-cotta elements on this building with new elements made of cast stone and fiberglass-reinforced concrete.

Warner Bros. Studio Facilities
818-954-3000; Fax: 818-954-7829
www.wbsf.com
Burbank, CA 91522
Custom fabricator of architectural ornament & murals: balustrades, columns, capitals & moldings in fiberglass & plaster; fine art reproduction, restoration & trompe l'oeil; interior & exterior decoration.
Write in No. 778

Wassmer Studios
800-923-4234; Fax: 816-283-0653
www.wassmerstudios.com
Kansas City, MO 64116
Manufacturer of interior & exterior ornament: cast-limestone columns, balustrades, cornices, mantels, range hoods; plaster brackets, ceiling domes, medallions, moldings & mantels.
Write in No. 1824

restoration & new construction
www.traditional-building.com



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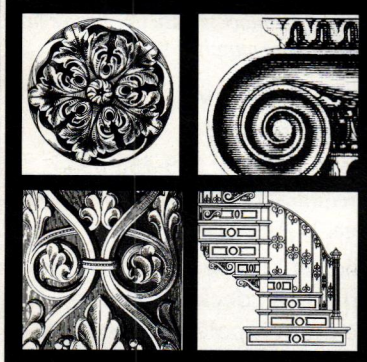

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www.boardandbeam.com
Washington Depot, CT 06793
Supplier of antique & recycled wood: antique heavy timber, milled lumber from antique wood, barn wood, wood flooring, recycled beams, planks, entryways & doors; oak, white pine, yellow pine, hemlock & chestnut.
Write in No. 2763

Bob's Old House & Barn Restoration
207-377-8826; No fax
www.oldhousesinme.com
Winthrop, ME 04364
Restorer of old houses & barns: building documentation, conservation & design services.

Carlson's Barnwood Co.
309-522-5550; Fax: 309-522-5123
www.carlsonsbarnwood.com
Cambridge, IL 61238
Supplier of antique barnwood & salvaged materials: planks, beams, dimensional lumber, re-milled flooring & architectural antiques; pine & oak; complete timber frames & barns; salvaged doors, windows & shutters.
Write in No. 2744

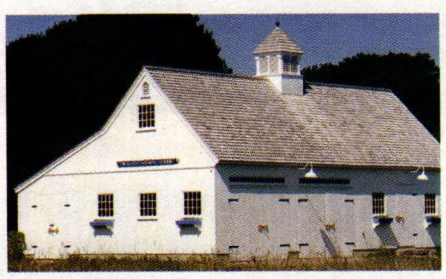
Colonial Barn Restoration constructed the timber-frame addition to the Elizabeth B. Hall Chapel at Concord Academy, in Concord, MA.

Colonial Barn Restoration Co.
978-779-9865; No fax
www.colonialbarn.com
Bolton, MA 01740
Restorer & rebuilder of timber-frame buildings: antique barns, steeples, cupolas, domes & more; relocation & removal of structures; exterior restoration; roofing & painting.
Write in No. 599

Colonial Restorations
508-867-4400; No fax
www.cr1981.com
Brookfield, MA 01506
Restorer of post-&-beam buildings: restoration, repair & replacement of timbers; straightening & leveling of barns; consultation.
Write in No. 597

These 8x8 timbers were replaced by Colonial Restorations, under an existing chimney that had four fireplaces and a beehive oven.

Country Carpenters, Inc.
860-228-2276; Fax: 860-228-5106
www.countrycarpenters.com
Hebron, CT 06248
Manufacturer of pre-cut, New England-style post-&-beam carriage houses: garden sheds & country barns; pre-cut, pre-engineered building kits; cupolas; family owned & operated since 1974; catalog $5.
Write in No. 1439



This 28x42-ft. barn was built by Country Carpenters.

Country Road Associates, Ltd.
845-677-6041; Fax: 845-677-6532
www.countryroadassociates.com
Millbrook, NY 12545
Supplier of reclaimed wood: wide board & random width; chestnut, maple, oak, pine, heart pine, cherry, elm & walnut; distributor of reclaimed barn siding, hand-hewn beams, paneling & cabinetry.
Write in No. 7480

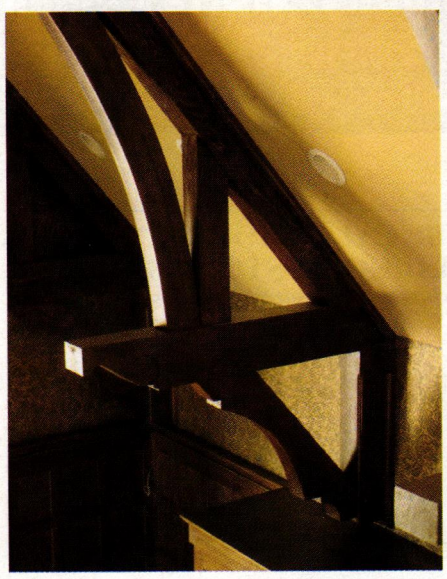
Craftwright built the hand-crafted timber frame for this church.

Craftwright, Inc.
410-876-0999; Fax: Same as phone
www.craftwrighttimberframes.com
Westminster, MD 21157
Supplier of timber-frame structures: home, barn, bridge, steeple & church framing & more.
Write in No. 645

FreeState Timbersmiths
913-897-5262; fax: 913-897-1459
Stilwell, KS 66085
Custom fabricator & distributor of timber frames: recycled timbers & timber-frame restoration; residential & commercial projects; serves Midwest clients in all facets of timber-frame structures.
Write in No. 1464

Historic Log and Timber
613-353-7262; Fax: 613-353-6059
www.historiclogandtimber.com
Elginburg, ON, Canada K0H1M
Restorer of antique log buildings & timber frames: salvaged materials; project management & design services.

Hugh Lofting Timber Framing, Inc.
610-444-5382; Fax: 610-869-3589
www.hughloftingtimberframe.com
West Grove, PA 19390
Designer, fabricator & installer of custom timber-frame structures: residential, commercial & outbuildings; insulated panel systems; throughout the mid-Atlantic region.
Write in No. 663



These structural trusses were hand carved in Douglas fir by Hugh Lofting.

Kronenberger & Sons Restoration
860-347-4600; Fax: 860-343-0309
www.kronenbergersons.com
Middletown, CT 06457
Contractor for interior & exterior restoration: all types of finishes; post-&-beam construction; windows, molding & roofing; masonry & wood; museums, churches, town halls, libraries, barns, period homes & outbuildings.
Write in No. 536

Kronenberger & Sons used rustic-style cedar framing when renovating this structure in Connecticut.

Liberty Head Post & Beam
802-434-2120; Fax: 802-434-4929
www.libertyheadpostandbeam.com
Huntington, VT 05462
Custom designer of timber-framed structures: joined in the Vermont tradition.
Write in No. 1233

Pacific Post & Beam
805-434-0166; No fax
www.pacificpostbeam.com
Paso Robles, CA 93446
Manufacturer of timber frames & trusses: recycled & new timbers; commercial & residential use; timber frames for wineries & tasting rooms; design, frame construction & more; since 1983.

Pacific Post & Beam designs and custom builds timber-frame homes, trusses, wineries and other structures, such as this Koi pond pagoda.

Post & Beam Homes
860-267-2060; Fax: 860-267-9515
www.postandbeamhomes.com
East Hampton, CT 06424
Custom designer & fabricator of post-&-beam residential, commercial, institutional & public timber-frame buildings; worldwide construction; since 1976.
Write in No. 1827

Douglas fir, hemlock, white fir, spruce and pine timbers are supplied by Reliance.

Reliance Specialty Building Products
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www.reliancesbp.com
Spokane, WA 99218
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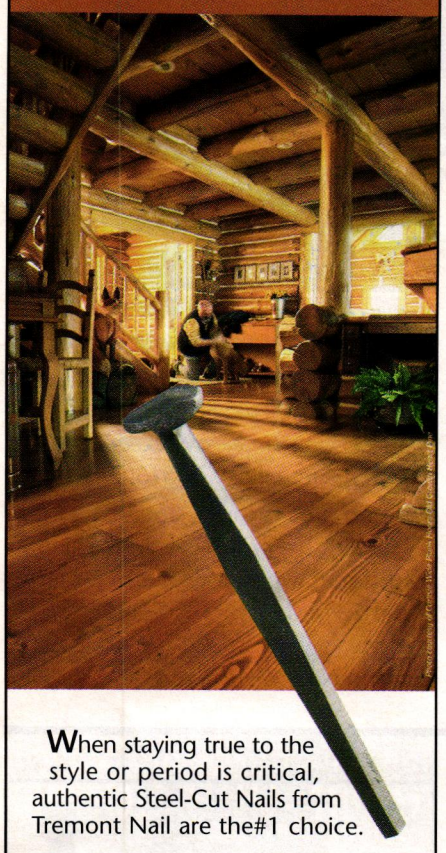

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HONORS FOR GREENBERG & MORTON

Allan Greenberg and David Morton were awarded prizes for their contributions to Classicism.

The 2006 Richard H. Driehaus Prize was awarded to architect Allan Greenberg in honor of his commitment to progressive ideas that advance traditional architecture. The prize is awarded each year to a major contributor in the field of traditional and Classical architecture. The University of Notre Dame School of Architecture presented the fourth annual prize to Greenberg in a ceremony on March 25 at the University Club of Chicago, IL. Greenberg received $100,000 and a model of the Choregic Monument of Lysikrates, created by Chicago artist Michael Chupich, to honor a career of beautiful, influential and enduring work.

The first American to receive the Driehaus Prize, Greenberg also received an honorary doctoral degree from Notre Dame in 1997 in conjunction with the dedication of the University's Bond Hall of Architecture. His most celebrated works include the Humanities Building at Rice University, for which he won an American Institute of Architects 2001 Design Excellence Award, and the Tommy Hilfiger flagship store in Beverly Hills, which was named the best commercial building of 1998 by the Precast/Prestressed Concrete Institute.

Among Greenberg's other notable designs are a Greenwich, CT, farmhouse that won a 1990 Arthur Ross Award from Classical America, and renovations of more than 30 spaces within the Department of State in Washington, DC. George P. Schultz, former Secretary of State, noted that Greenberg enhanced the setting "to embody the noblest ideals of American life," and the interiors, including the main foyer, the offices of The Secretary of State and Deputy Secretary of State and the ceremonial Treaty Signing Room, reflected "the character in which Thomas Jefferson, the first Secretary of State, would feel at home."

Through his teaching, writing and public lectures, Greenberg has furthered both architectural scholarship and practice. He has written several books and many articles on the relationship between the U.S. Constitution and American architecture, as well as on the dynamic and enduring qualities of traditional architecture and design. A monograph of his work was published in 1995 by Academic Press. His book *George Washington, Architect* was published in 1999 by Andreas Papadakis Publishers, and his most recent work, *The Architecture of Democracy: American Architecture and the Legacy of the Revolution*, published by Rizzoli International Publications, will be released this year. A television series based on the book is also in progress.

Celebrating the 2006 Driehaus Prize and Henry Hope Reed Award are (left to right): Richard H. Driehaus, founder and chairman of Driehaus Capital Management in Chicago, Allan Greenberg, David Morton and Michael Lykoudis, dean of the University of Notre Dame School of Architecture.

Greenberg's contributions to civic, commercial, educational and residential architecture prompted George Hersey, author and professor of Art History at Yale University, to call him "the most knowing, most serious practitioner of Classicism currently on the scene in this country."

In conjunction with the Driehaus Prize, David Morton received the second annual $25,000 Henry Hope Reed Award for the promotion of Classical art and architecture. As a senior editor at Rizzoli International Publications since 1987, Morton has been responsible for acquiring and developing architecture-related titles. A member of the Institute for Classical Architecture & Classical America, he has overseen titles such as Samuel White's *The Houses of McKim Mead & White* and *Masterpieces of Chicago Architecture* by John Zukowsky.

Richard H. Driehaus, the founder and chairman of Driehaus Capital Management in Chicago, endowed both awards through the University of Notre Dame School of Architecture because of its reputation as a national leader in incorporating the principles of traditional and Classical architecture into the task of modern urban development. Previous Driehaus Prize laureates are Léon Krier, Demetri Porphyrios and Quinlan Terry.

The 2006 selection committee included Richard Driehaus; Thomas Beeby, principal at Hammond Beeby Rupert Ainge, Chicago, IL, and former dean of the Yale School of Architecture; Elizabeth M. Dowling, author and professor at Georgia Tech's College of Architecture; Anne Fairfax, principal at Fairfax and Sammons, New York, NY; Paul Goldberger, dean of the Parsons School of Design and architecture critic for *The New Yorker*; Léon Krier, architect, urbanist and inaugural recipient of the Richard H. Driehaus Prize; and Michael Lykoudis, dean of the University of Notre Dame School of Architecture. ◆

Greenberg has renovated more than 30 spaces within the Department of State in Washington, DC, including the ceremonial Treaty Signing Room.

2006 ARTHUR ROSS AWARDS

The Arthur Ross Awards were established in 1982 by Classical America President Henry Hope Reed and Board Chairman Arthur Ross to celebrate excellence in the Classical tradition. The awards are comprised of 11 categories: architecture, artisanship, community design, education, history and publishing, landscape design, mural painting, patronage, rendering, sculpture and stewardship, with a maximum of five being awarded each year.

The selection committee that chooses recipients of the awards is made up of members of the Institute of Classical Architecture & Classical America's board of directors, advisory council, fellows and distinguished members of related professions. Nominations are submitted throughout the year.

The 2006 winners were selected from more than 150 nominations submitted to a jury chaired by Elizabeth Plater-Zyberk, dean of the School of Architecture at the University of Miami and founding principal of Duany Plater-Zyberk & Company. The jury included painter and educator Jacob Collins; educator and designer Christine G.H. Franck; interior designer and journalist Alexa Hampton; architect and builder William H. Harrison; Susan Henshaw Jones, president of the Museum of the City of New York and former head of the National Building Museum; author, journalist and *Traditional Building* editor-at-large Clem Labine; scholar Henry Hope Reed; and architect Gil Schafer III, who serves as chairman of the ICA&CA's board of directors. The jury coordinator was architect and Institute Fellow Phillip Dodd.

"This year's awards recognize five outstanding individuals and organizations whose work has contributed to public appreciation and engagement with the Classical tradition in painting, architecture, community design, history and stewardship. In this auspicious 25th anniversary year of the Arthur Ross Awards the jury chose to emphasize achievements that have had broad public influence by their scale, location, or dissemination," Plater-Zyberk says. This year, the award for architecture went to Hartman-Cox Architects, Washington, DC; The Mississippi Renewal Forum, Biloxi, MS, won for community design; William R. Mitchell, Jr., Atlanta, GA, won for history/writing/publishing; Leonard Porter, New York, NY, won for mural painting/painting; and The Central Park Conservancy, New York, NY, won for stewardship.

ARCHITECTURE

Hartman-Cox Architects, Washington, DC

The Architecture award this year recognizes Hartman-Cox Architects for its broad range of work with historical tradition — from the preservation of Classical icons to the conception and construction of new institutional buildings. The firm's willingness and ability to engage the full history of design has long empowered it to bring traditional design to contemporary buildings of civic scale and use.

Hartman Cox designed the Monroe Hall addition for the McIntire School of Commerce, University of Virginia in Charlottesville, VA. *Photo: courtesy of Hartman-Cox Architects*

MURAL PAINTING/PAINTING

Leonard Porter, New York, NY

This award recognizes Leonard Porter's incomparable conceptual rigor and skill in the creation of paintings and murals. The thoughtfulness and beauty of his work brings sophistication and dignity to representational painting that embellishes the public realm as well as private spaces.

One of Leonard Porter's recent projects is the Chapel of the Sacred Heart of Jesus in St. Joseph's Cathedral in Sioux Falls, SD. *Photo: courtesy of Leonard Porter*

COMMUNITY DESIGN

The Mississippi Renewal Forum, Biloxi, MS

This award recognizes the Mississippi Renewal Forum, a remarkable collaboration of more than 100 architects, planners, engineers, environmentalists and civic leaders producing a plan for rebuilding the Mississippi coast after its destruction by Hurricane Katrina. Eleven city plans, as well as suggestions for regional infrastructure, and a pattern book to guide the design and construction of individual buildings were produced and published within weeks of the storm and continue to guide the interaction of state and national architects with the communities most in need.

STEWARDSHIP

The Central Park Conservancy, New York, NY

The Central Park Conservancy is recognized this year in its 25th anniversary as a not-for-profit organization with the Stewardship/Good Manners award for its ongoing work preserving, protecting and maintaining an icon of the American public realm, New York City's Central Park. The conservancy provides a majority of the park's annual operating funds and sets a standard of quality control, ensuring its continuation as a national model for cultural and environmental stewardship.

Filling more than 800 acres in the center of Manhattan, Central Park was designed by Frederick Law Olmsted and Calvert Vaux as an oasis away from the hustle and bustle of New York City. *Photo: courtesy of the Central Park Conservancy*

HISTORY/WRITING/PUBLISHING

William R. Mitchell, Jr., Atlanta, GA

The award for history/writing/publishing celebrates the long and illustrious career of William R. Mitchell, Jr., historian. His numerous publications documenting the historical architecture of several southern states has served as an indisputable foundation for the preservation successes of communities throughout the South, including his native city of Atlanta, where his Southern Architecture Foundation has its headquarters. Mitchell's work underlines the importance of recovering and documenting knowledge that can serve as a bulwark for preservation efforts in the political arena.

A "MASTERPIECE" 40 YEARS OUT

By Milton Wilfred Grenfell, AIA

There remain a handful of early Modernist buildings that maintain their masterpiece aura despite the decline of their kindred ilk in public esteem, and due to the rough justice of the wrecking ball, a decline in number as well. The Seagram building, Fallingwater and Washington Dulles International Airport might be grouped in this diminishing herd of sacred cows. Alas, after several recent months of flying in and out of Dulles Airport, I'm convinced it's time to lead this old heifer off to the abattoir.

Let's begin by acknowledging that on one level architecture is entertainment. And every successful entertainer, whether a novelist, playwright, film director, composer or architect, understands that you have to "hook them" right at the opening. So what is Dulles's opening act? If one arrives by shuttle bus from Washington or remote parking lots, one is confronted by a battered wall of crudely faceted concrete, with periodic unadorned tunnels allowing access into some kind of subterranean space, the nature of which the exterior furnishes not a clue. These concrete greeting walls resemble nothing so much as overgrown "Jersey barriers," about which the only thing entertaining is that they bear a striking similarity to the menacing gun emplacements depicted in one of the favorite movies from my youth, The *Guns of Navarone*. This was roughly contemporaneous with the design of the airport and is perhaps an instance of life imitating art, except that the movie's happy ending had the Allied commandos dynamiting the gun emplacement.

But the more important opening act is how the building is perceived when one arrives by air, for this is a visitor's entry not just to the airport, but to our nation's capital and, for many, to the United States. The approach from this concourse to the terminal is by "Mobile Lounge," which might best be described as an oversized RV full of plastic seats. As the Mobile Lounge approaches the masterpiece in question, one notices that the front of the white, wing-shaped roof is beset with numerous unsightly streaks, which traditional buildings avoid through the use of cornices. Then there's the black goo oozing from the wing roof's exposed expansion joints. So what if airplane wings, ostensibly the roof's inspiration, don't have cornices or expansion joints? Heroic Modernists were never ones to allow practical concerns to muddy a metaphor.

At last the Mobile Lounge lurches up to the terminal and one is greeted by a row of truck loading docks, complete with torn and tattered rubber gaskets. No windows, doors, articulation, ornament or anything to suggest that this might be a place for people. Confronted by what appears to be a cargo terminal, one half expects to be greeted by a forklift.

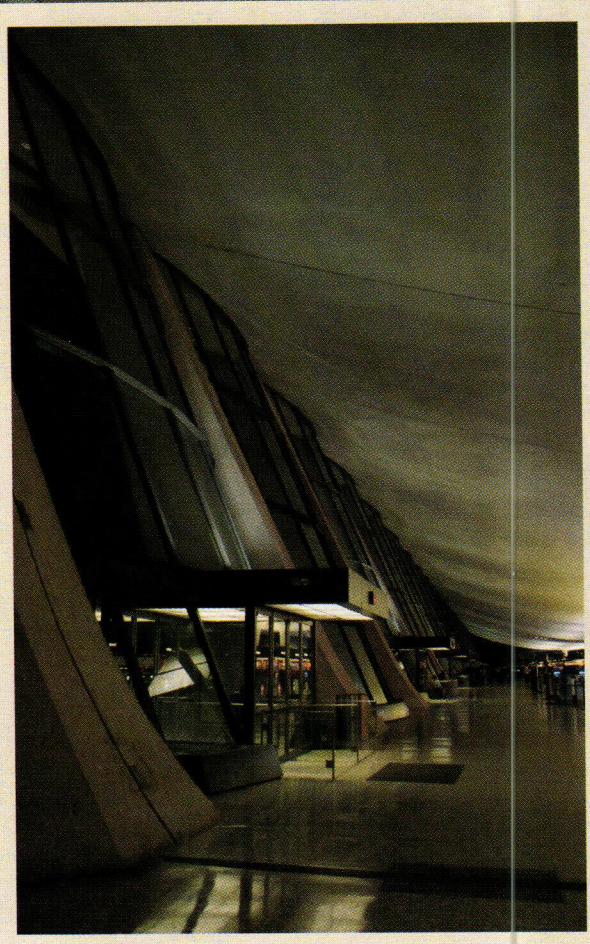
Feeling a bit worn from the rigors of contemporary air travel, one enters the main terminal to the welcoming embrace of exposed aggregate poured-in-place concrete walls – the kind that will take your skin off should you accidentally brush up against one. And if the tactile hostility of the concrete walls isn't aesthetic offense enough, there's the niggling problem of the inevitable cold joints between the concrete pours, leaving unattractive random seams hither and yon. These seams, combined with unrelieved splotchiness due to uneven aggregate separations and the excellent dirt-catching capability of the rough aggregate, make for truly repellant interior spaces, the much-celebrated draped wet sheet of a roof/ceiling notwithstanding. It's astonishing to realize that the architect actually intended for these crude surfaces to be seen.

In an age of rapid technological change such as the 1960s, when Dulles was conceived, surely being able to gracefully accommodate change should have been a programmatic requirement. Yet moving partitions, signs, electrical outlets and the other multitudinous changes required in the life of a building are costly and, from a cosmetic standpoint, virtually impossible in an exposed concrete wall. Surface-mounted electrical conduits and various unsightly patches spattered about resemble the varicose veins and age spots of not-so-graceful aging. A less obdurate finish material such as, say, plaster, could have economically and gracefully accommodated all these changes, but then plaster wasn't modern enough for the 1960s.

But enough about aesthetics, let's look at function. Due to its current ongoing renovation and expansion, a thorough analysis of the current functional mess that is Dulles would be unfair. So instead, let's just examine the functioning of the Mobile Lounges, which epitomize the bold conceptual rethinking that characterizes this building, and the deficiencies that have resulted from such a design approach. Imagine, if you will, standing in line to enter the Mobile Lounge, then waiting for it to fill, then for the driver to come and lock himself in his cabin, the time for it to lumber across the runway, then dock, then unload, and all the while your watch is ticking towards takeoff, and you'll get a sense of the entire building's nerve-wracking disfunctionality.

The lounges were originally to have cocktails served in them, which would have at least taken some of the sting out of missing your flight. Yet this building was a creation of Modernism's "best and brightest." The highly celebrated Eero Saarinen of Cranbrook and Yale was its chief architect, in collaboration with Charles Eames and Norman Bel Geddes, possibly the greatest two polymath designers of the Modernist age. So, to return to the Mobile Lounges, the problem with these *ex nihilo* gizmos is the problem with the whole building, and indeed all of Modern architecture. Modernism was an effort to reinvent the wheel, ignoring the fact that the wheel had already been invented, and that all wheels have to be round. After 40 years, this one particular bold leap into the future is having to undergo a lengthy and expensive radical makeover. Revered as a Modernist icon, a sensible proposal to raze Dulles and simply do it right this time would be, I suspect, strictly out of the question.

Yet, as a traveler and taxpayer enduring the many months of massive reworking and rebuilding, I wistfully reflect on New York's Grand Central Terminal, a twice-as-old icon of another kind of architecture, and recall that its recent restoration required not much more than a thorough cleaning and some fresh paint to have it good to go for another century of transmuting travel's tedium into the sublime. ◆



Above: The celebrated wing-like roof and exterior of Dulles houses truly repellant interior spaces. *Photo: © Donald Corner & Jenny Young/GreatBuildings.com*

Left: The interior experience of the roof is like standing beneath a vast, sagging wet sheet. Upon entering for the first time, my five-year-old daughter looked up and trepidaciously said, "Daddy, it looks like the roof is going to fall down on us!" *Photo: © Kevin Matthews/GreatBuildings.com*

Milton W. Grenfell is an architect working in Washington, DC. His firm, Grenfell Architecture, is committed to practicing in the tradition of Western architecture and urbanism. Grenfell is a past recipient of Classical America's Arthur Ross Award.

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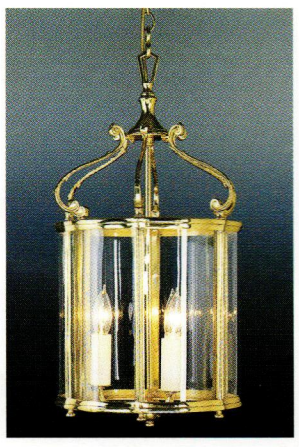
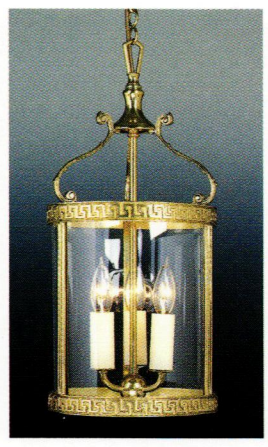
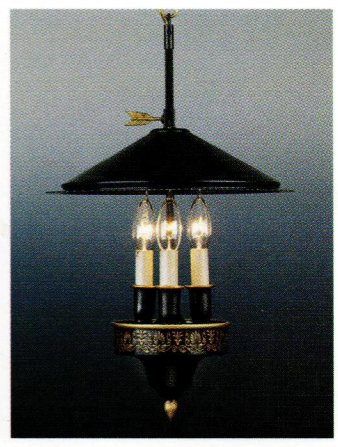

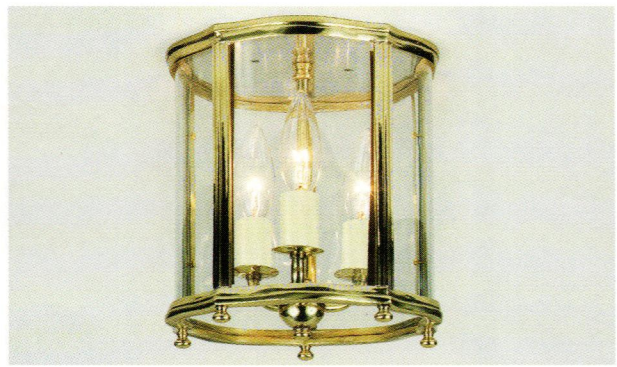
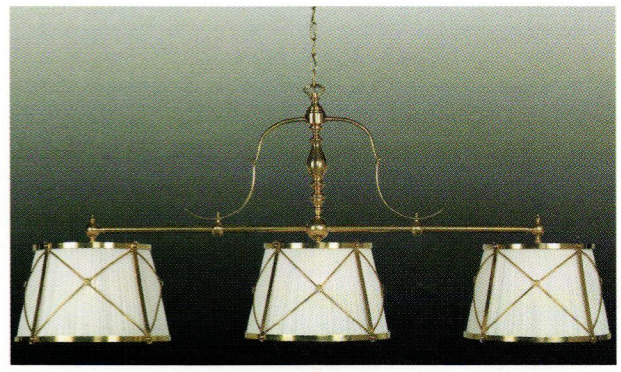

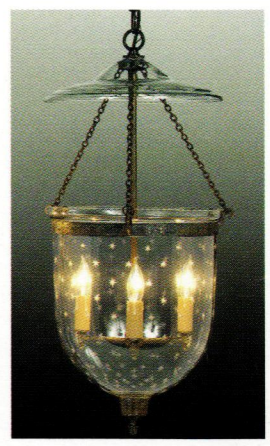

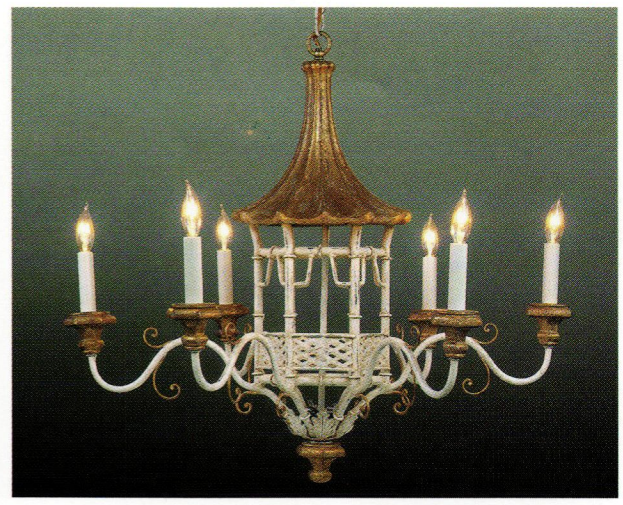

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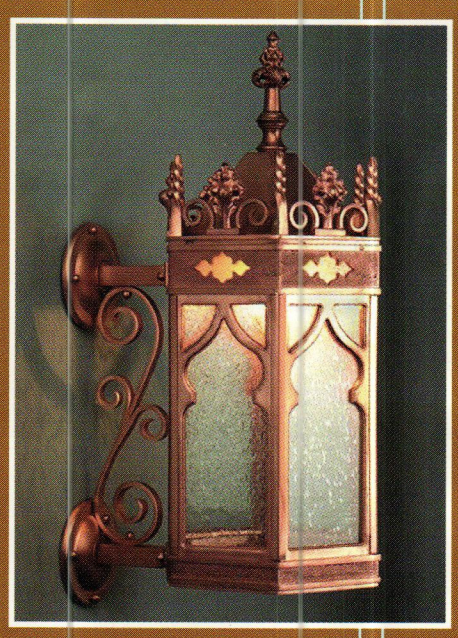

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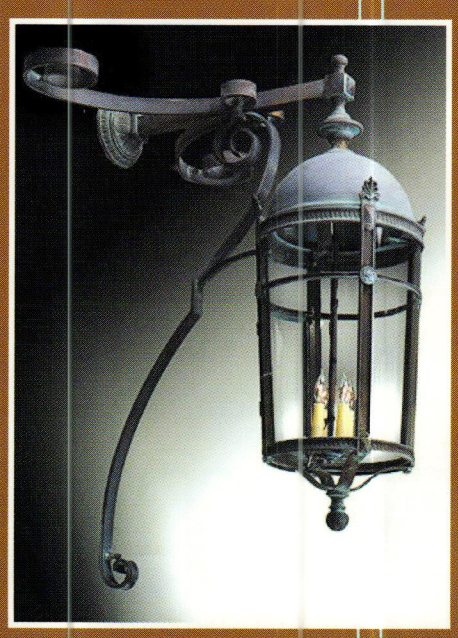

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